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of
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Introduction

This *Annual Summary of Vital Statistics, Washington State 1989* contains a presentation, in tabular form, of the vital events (birth, death, marriage, divorce) and induced terminations which occurred during the calendar year 1989. In the interest of easy comparison, essentially the same format of tabular presentation used in previous reports titled *Report: Vital Statistics and Induced Terminations of Pregnancy* has been continued, with the following exception:

New this year: Changes to published race tables, births and infant deaths

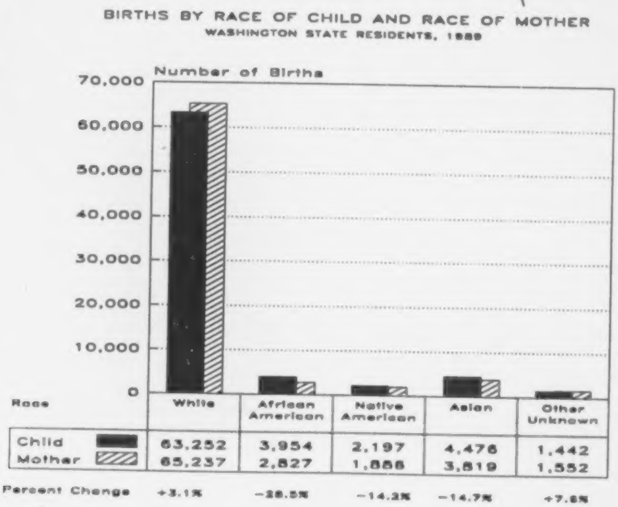
This year the Annual Summary includes birth and infant death data tabulated by race of the mother as well as the usual tables by race of the child. This addition parallels changes made by the National Center for Health Statistics, the agency responsible for publication of national data. Beginning with 1989 data, all national vital statistics will be published by race of the mother rather than race of the child. This change was made for three reasons:

1) The data will be more consistent with Census data, which are used as a base for calculating birth rates;
2) Much of the medical and risk factor data collected on the birth certificate pertain to the mother (e.g., age, prenatal care, smoking, and alcohol use); and
3) An increasing number of birth certificates are missing the father's race due to an increase in the proportion of births to unmarried mothers (for Washington State, from 8.1% in 1968 to 22.3% in 1988). For these births, the child has traditionally been assigned the race of the mother.

For comparison purposes, Washington State has chosen to publish data by both the mother's and the child's race for 1989. In future years, tables by race of the child will be available but will not be published. The following data will help to assess the impact of the change in race classification.

A. Number of Births:

As Figure 1 shows, the change in race classification has the effect of increasing the number of White births and decreasing the number of births classified to other races, particularly African and Native Americans and Asians.



Race	White	African American	Native American	Asian	Other Unknown
Child ■	63,252	3,954	2,197	4,476	1,442
Mother ▨	65,237	2,827	1,886	3,819	1,552
Percent Change	+3.1%	−28.5%	−14.2%	−14.7%	+7.6%

Figure 1

B. Birth Weight:

Birth weight is an important indicator of infant health. Figure 2 shows that, except for African Americans, who have a 15.3 percent increase in low birth weight, the change in race classification has little effect on the proportion of infants at low birth weight (2500 grams or less). This difference can be explained by the fact that births where the mother is African American include fewer children of mixed parentage than births where the child is African American. Children born to two African American parents have low birth weight more often than African American children of mixed parentage.

C. Infant Death Rate:

Figure 3 shows the impact of the change in race classification on infant mortality rates. Again, the larger impact is on African and Native American and Asian racial categories, all with rather substantial increases in infant mortality rates. The reason for this change is unclear except for African Americans, where the higher infant mortality rate may be related to the higher percent low birth weight when birth data are classified by race of the mother.

It should be noted that other death data are not affected by this change in race classification. These death data are based on race of the decedent as reported on the death certificate.

BIRTH WEIGHT BY RACE OF CHILD AND RACE OF MOTHER
WASHINGTON STATE RESIDENTS, 1989

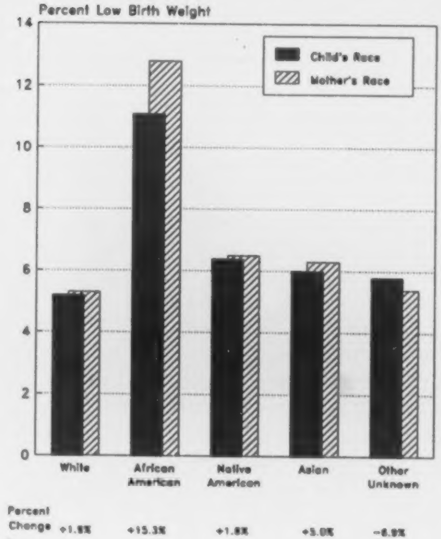
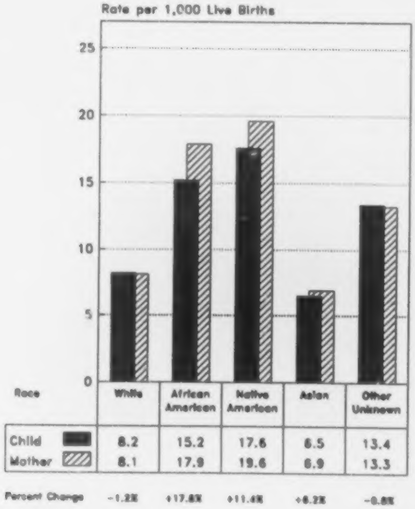


Figure 2

INFANT MORTALITY RATES BY RACE OF CHILD AND RACE OF MOTHER
WASHINGTON STATE RESIDENTS, 1988-89



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OVERVIEW

Table 1

Summary of the Number of Live Births, Deaths, Infant Deaths, Maternal Deaths, and Fetal Deaths, with Rates

Washington State 1920-1989

Year	Population[1]	Live Births		Deaths		Infant Deaths		Maternal Deaths		Fetal Deaths	
		Number	Rate[2]	Number	Rate[2]	Number	Rate3	Number[4]	Rate[5]	Number	Ratio3
1920	1,367,000	27,072	19.8	15,164	11.1	1,797	66.4	249	92.0	888	32.8
1921	1,385,700	27,267	19.7	13,254	9.6	1,512	55.5	192	70.4	852	31.2
1922	1,407,100	25,378	18.0	14,249	10.1	1,566	61.7	190	74.9	731	28.8
1923	1,427,300	25,259	17.7	13,856	9.7	1,428	56.5	159	62.9	680	26.9
1924	1,447,200	25,378	17.5	14,580	10.1	1,426	56.2	167	65.8	711	28.0
1925	1,467,600	24,741	16.9	15,280	10.4	1,395	56.4	140	56.6	667	27.0
1926	1,487,600	23,989	16.1	15,670	10.5	1,352	56.4	174	72.5	719	30.0
1927	1,507,800	23,315	15.5	15,950	10.6	1,162	49.8	151	64.8	650	27.9
1928	1,528,200	23,161	15.2	16,723	10.9	1,115	48.1	175	75.6	641	27.7
1929	1,548,400	22,685	14.7	16,413	10.6	1,110	48.9	150	66.1	572	25.2
1930	1,568,000	23,019	14.7	16,678	10.6	1,122	48.7	148	64.3	601	26.1
1931	1,585,000	22,028	13.9	16,524	10.4	1,064	48.3	141	64.0	591	26.8
1932	1,602,500	21,379	13.3	16,581	10.3	967	45.2	139	65.0	530	24.8
1933	1,619,700	20,882	12.9	16,705	10.3	811	38.8	140	67.0	446	21.4
1934	1,636,900	22,484	13.7	17,456	10.7	968	43.1	105	46.7	520	23.1
1935	1,654,000	22,378	13.5	18,046	10.9	998	44.6	120	53.6	469	21.0
1936	1,671,400	23,354	14.0	19,057	11.4	1,064	45.6	115	49.2	468	20.0
1937	1,689,100	24,882	14.7	18,771	11.1	978	39.3	118	47.4	495	19.9
1938	1,706,000	26,702	15.7	18,514	10.9	1,035	38.8	94	35.2	440	16.5
1939	1,723,400	26,471	15.4	18,528	10.8	977	36.9	97	36.6	450	17.0
1940	1,752,400	27,952	16.0	19,837	11.3	969	34.7	89	31.8	459	16.4
1941	1,816,700	30,916	17.0	19,359	10.7	1,065	34.4	66	21.3	445	14.4
1942	1,880,700	38,744	20.6	20,190	10.7	1,278	33.0	78	20.1	606	15.6
1943	1,945,000	44,258	22.8	22,017	11.3	1,534	34.7	72	16.3	575	13.0
1944	2,009,600	44,246	22.0	21,144	10.5	1,493	33.7	72	16.3	607	13.7
1945	2,073,600	44,296	21.4	21,292	10.3	1,523	34.4	79	17.8	672	15.2
1946	2,137,600	51,941	24.3	21,620	10.1	1,723	33.2	65	12.5	869	16.7
1947	2,202,400	58,230	26.4	21,763	9.9	1,630	28.0	59	10.1	907	15.6
1948	2,266,400	55,460	24.5	21,925	9.7	1,525	27.5	36	6.5	776	14.0
1949	2,331,000	56,433	24.2	22,420	9.6	1,526	27.0	36	6.4	850	15.1
1950	2,378,963	55,755	23.4	22,450	9.4	1,526	27.4	28	5.0	799	14.3
1951	2,444,000	57,994	23.7	23,300	9.5	1,412	24.3	23	4.0	852	14.7
1952	2,496,100	61,436	24.6	22,874	9.2	1,522	24.8	15	2.4	857	13.9
1953	2,528,200	61,571	24.4	23,279	9.2	1,556	25.3	18	2.9	834	13.5
1954	2,566,000	62,703	24.4	23,238	9.1	1,514	24.1	29	4.6	829	13.2
1955	2,586,100	62,290	24.1	24,410	9.4	1,520	24.4	16	2.6	806	12.9

Year	Population[1]	Live Births		Deaths		Infant Deaths		Maternal Deaths		Fetal Deaths	
		Number	Rate[2]	Number	Rate[2]	Number	Rate[3]	Number[4]	Rate[5]	Number	Ratio[3]
1956	2,651,900	64,999	24.5	24,207	9.1	1,524	23.4	13	2.0	777	12.0
1957	2,712,700	65,982	24.3	25,140	9.3	1,596	24.2	20	3.0	793	12.0
1958	2,767,900	65,574	23.7	25,429	9.2	1,707	26.0	11	1.7	764	11.7
1959	2,819,000	65,729	23.3	26,229	9.3	1,570	23.9	9	1.4	749	11.4
1960	2,853,214	65,251	22.9	26,505	9.3	1,528	23.4	17	2.6	738	11.3
1961	2,897,000	65,013	22.4	26,353	9.1	1,467	22.6	19	2.9	756	11.6
1962	2,948,000	64,812	22.0	27,343	9.3	1,476	22.8	6	0.9	704	10.9
1963	2,972,000	61,013	20.5	27,550	9.3	1,339	21.9	10	1.6	657	10.8
1964	3,008,000	57,148	19.0	28,106	9.3	1,277	22.3	7	1.2	637	11.1
1965	3,065,000	52,806	17.2	27,379	8.9	1,130	21.4	15	2.8	639	12.1
1966	3,125,000	51,777	16.6	29,035	9.3	1,084	20.9	13	2.5	554	10.7
1967	3,229,000	54,875	17.1	29,302	9.1	1,050	19.1	12	2.2	573	10.4
1968	3,329,000	57,206	17.2	30,360	9.1	1,120	19.6	8	1.4	620	10.8
1969	3,365,000	59,354	17.6	30,504	9.1	1,118	18.8	12	2.0	651	11.0
1970	3,409,169	60,499	17.7	29,901	8.8	1,135	18.8	9	1.5	640	10.6
1971	3,433,000	55,304	16.1	30,318	8.8	1,008	18.2	5	0.9	574	10.4
1972	3,418,800	48,250	14.1	29,747	8.7	805	17.0	6	1.2	428	8.8
1973	3,424,300	47,636	13.9	30,751	9.0	781	16.4	3	0.6	430	9.0
1974	3,448,100	50,096	14.5	29,773	8.6	763	15.2	4	0.8	450	9.0
1975	3,494,124	50,821	14.5	29,778	8.5	798	15.7	5	1.0	421	8.3
1976	3,571,600	53,004	14.8	30,275	8.5	765	14.4	3	0.6	439	8.3
1977	3,661,975	57,256	15.6	29,789	8.1	696	12.2	5	0.9	426	7.4
1978	3,774,294	58,725	15.6	30,469	8.1	737	12.6	4	0.7	465	7.9
1979	3,911,200	64,377	16.5	30,418	7.8	737	11.4	8	1.2	466	7.2
1980	4,130,163	67,857	16.4	32,012	7.8	798	11.8	10	1.5	533	7.9
1981	4,250,123	69,756	16.4	32,022	7.5	731	10.5	7	1.0	489	7.0
1982	4,264,000	69,529	16.3	32,309	7.6	744	10.7	8	1.2	501	7.2
1983	4,285,100	68,705	16.0	32,631	7.6	653	9.5	6	0.9	474	6.9
1984	4,328,100	68,947	15.9	33,788	7.8	704	10.2	7	1.0	444	6.4
1985	4,384,100	70,226	16.0	34,475	7.9	747	10.6	5	0.7	403	5.7
1986	4,419,700	69,431	15.7	34,166	7.7	675	9.7	2	0.3	445	6.4
1987	4,481,100	70,329	15.7	34,967	7.8	681	9.7	3	0.4	411	5.8
1988	4,565,000	72,471	15.9	36,299	8.0	652	9.0	3	0.4	381	5.3
1989	4,660,700	75,321	16.2	36,049	7.7	686	9.1	2	0.3	387	5.1

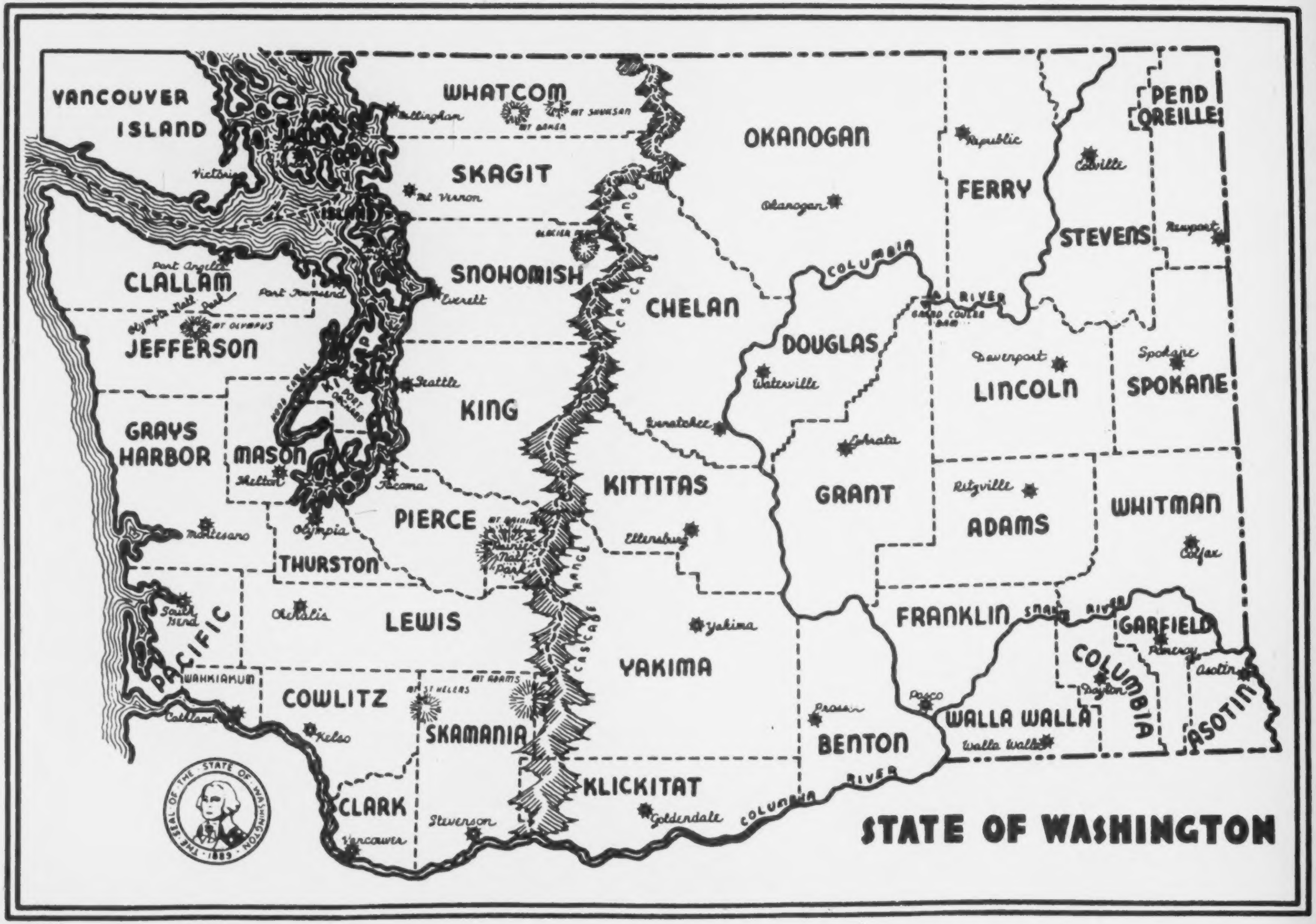
[1] 1961-1969 population figures are revised estimates provided by the Office of Program Planning and Fiscal Management.

[2] Per 1,000 Population

[3] Per 1,000 Live Births

[4] 1979-1988 maternal death figures are revised totals based on studies conducted by the Research and Data Analysis Section.

[5] Per 10,000 Live Births


VANCOUVER ISLAND
Victoria
WHATCOM
Bellingham
MT BAKER
MT SHUKSAN
SKAGIT
Mt Vernon
ISLAND
SNOHOMISH
Everett
GLACIER PEAK
CLALLAM
Port Angeles
Port Townsend
Olympic Nat'l Park
MT OLYMPUS
JEFFERSON
KITSAP
PORT ORCHARD
HOOD CANAL
Seattle
KING
GRAYS HARBOR
MASON
Shelton
Tacoma
PIERCE
MT RAINIER
Rainier Nat'l Park
Olympia
Montesano
THURSTON
South Bend
PACIFIC
Chehalis
LEWIS
WAHKIAKUM
Cathlamet
COWLITZ
Kelso
MT ST HELENS
MT ADAMS
SKAMANIA
CLARK
Vancouver
Stevenson
CASCADE RANGE
CHELAN
Wenatchee
KITTITAS
Ellensburg
YAKIMA
Yakima
KLICKITAT
Goldendale
OKANOGAN
Okanogan
DOUGLAS
Waterville
COLUMBIA RIVER
GRAND COULEE DAM
GRANT
Ephrata
BENTON
Prosser
FERRY
Republic
STEVENS
Colville
PEND OREILLE
Newport
LINCOLN
Davenport
SPOKANE
Spokane
ADAMS
Ritzville
WHITMAN
Colfax
FRANKLIN
Pasco
SNAKE RIVER
GARFIELD
Pomeroy
COLUMBIA
Dayton
WALLA WALLA
Walla Walla
ASOTIN
Asotin
THE SEAL OF THE STATE OF WASHINGTON 1889
STATE OF WASHINGTON

NATALITY

Natality - 1989 At A Glance

Washington State 1989

Item	Data	Trend[1]	Comparable US Data[2]
Number of Births	75,321	+	
Birth Rate (per 1,000 population)	16.2	+	15.9
Fertility Rate (per 1,000 women aged 15-44	68.7	+	67.5
Low Birth Weight Births (2,500 grams or less)	5.6%	+	6.9%
Births to Unwed Mothers	23.4%	+	24.5%
Plural Births	2.2%	N	2.2%
First Child	41.0%	N	41.3%
Deliveries by Unlicensed Attendant	0.4%	-	0.6%
Births at Home	1.8%	N	0.9%

[1] - = decreasing, + = increasing, N = no change.

[2] Birth and fertility rates are for 1989; other US Data are for 1987.

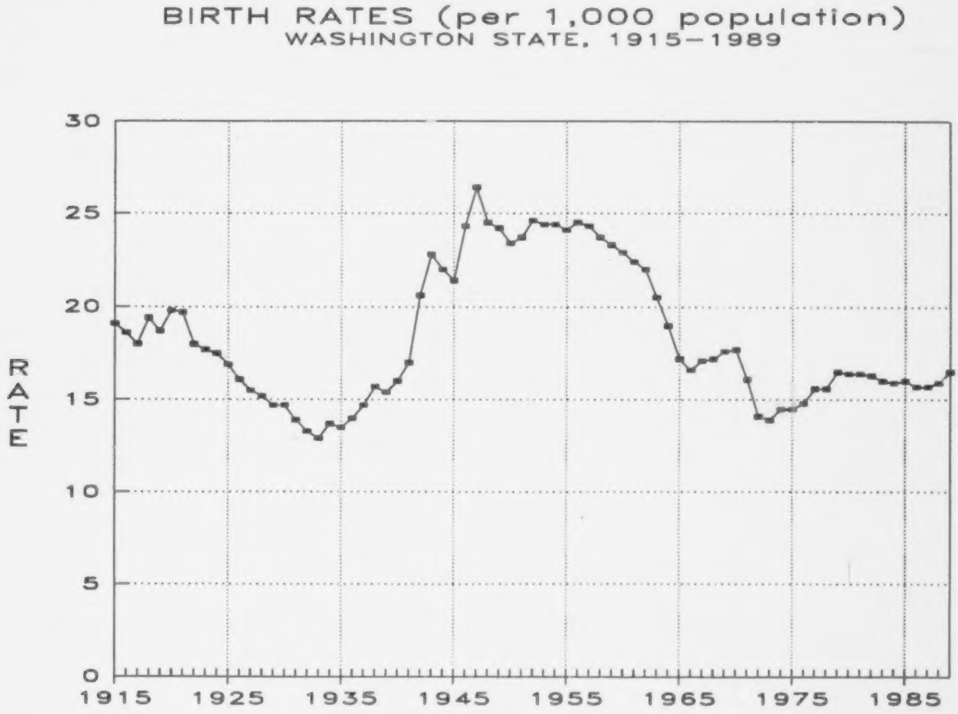


Figure 4

Is Washington State Meeting 1990 Natality Goals?*

1990 Goals, Washington State and US Compared

	Washington State		United States	
	Current[1]	Projected 1990	Current[2]	1990 Goal
Family Planning				
Teen Birth Rate (per 1,000 girls in each age group)				
15 year olds	11.5	11	14.7	10
16 year olds	26.6	25	30.1	25
17 year olds	48.0	46	49.6	45
Infant and Maternal Health				
Percent Low Birth Weight (2,500 grams or less)				
All Births	5.6	5	6.9	5
White	5.2	5	5.7	9
African American	11.1	11	12.7	9
Native American	6.4	7	6.2	9
Other	6.0	6	6.4	9
Maternal Mortality Rate (per 100,000 births)				
All Births	5.4	4	6.6	5
White	5.2	4	5.1	5
	10.0	9	14.2	5
Improved Services				
Percent Beginning Prenatal Care after 1st Trimester				
All Births	23.0	23	23.5	10
White	21.3	21	20.6	10
African American	36.5	36	38.9	10
Native American	37.6	38	40.0	10

[1] Maternal mortality data are for 1985-1989; all other data are for 1989.

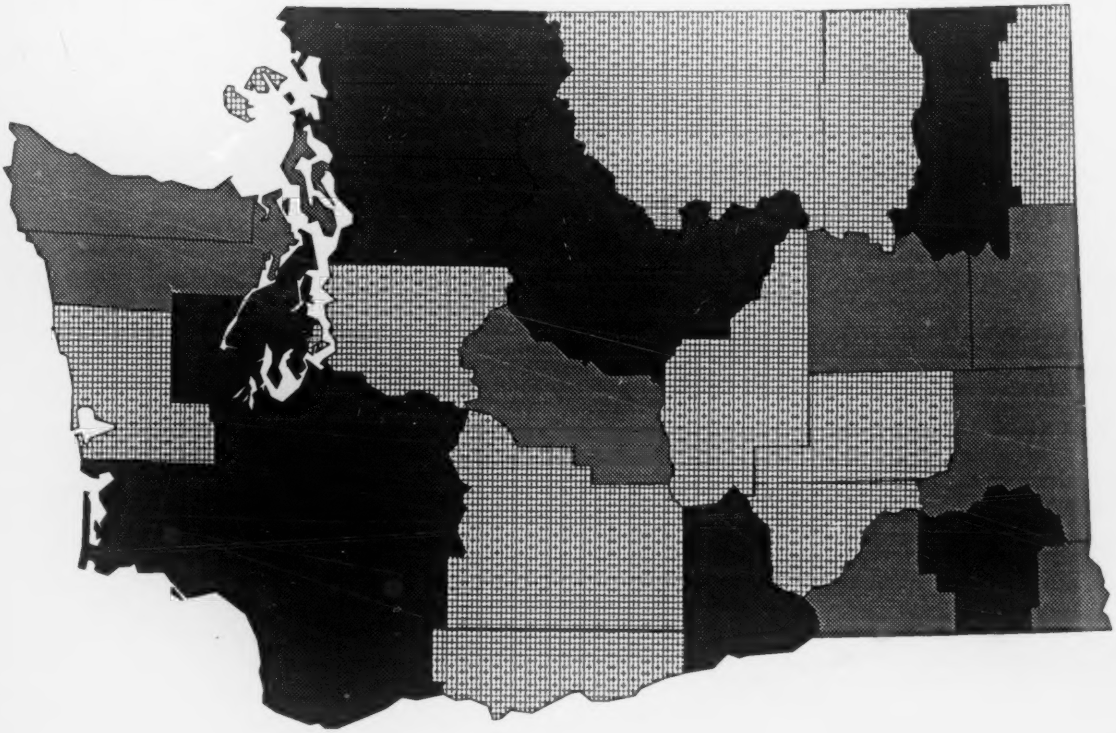
[2] All US data are for 1987.

Areas of Concern

- Increase in birth rates for teenagers (Goals may not be met for this group).
- Possible increase in proportion of low birth weight infants (although goals will still be met for all but African Americans).
- High maternal mortality rates for African Americans.
- High levels of late care, especially for Non-Whites.

*Methods and sources of data are described in the Technical Notes, Appendix B.

Inadequate Prenatal Care



Washington State, 1988-89

Percent inadequate care

▨ less than 6%

■ 6-10%

▦ greater than 10%

Table 2
Births in Washington State by Selected Topics, 1989

A. Residents, Sex by Child's Race

	Total	Male	Female	Unknown
Total	75,321	38,528	36,793	
White	63,252	32,321	30,931	
African American	3,954	2,040	1,914	
Native American	2,197	1,110	1,087	
Japanese	210	104	106	
Chinese	99	56	43	
Filipino	431	219	212	
Other Asian	3,736	1,916	1,820	
Other	7	4	3	
Unknown	1,435	758	677	
Hispanic	6,424	3,242	3,182	

B. Residents, Mother's Age Group by Sex

	Total	Male	Female	Unknown
Total	75,321	38,528	36,793	
Under 15	111	53	58	
15 - 17	2,558	1,307	1,251	
18 - 19	5,388	2,721	2,667	
20 - 24	19,612	10,155	9,457	
25 - 29	23,875	12,160	11,715	
30 - 34	16,629	8,481	8,148	
35 - 39	6,049	3,088	2,961	
40 - 44	889	456	433	
45 and Over	38	22	16	
Unknown	172	85	87	

C. Residents, Attendant at Birth

Total	75,321	100.0%[2]
MD	69,638	92.5
Osteopath	1,341	1.8
Licensed Midwife	964	1.3
Certified Midwife	2,425	3.2
Other Midwife	47	0.1
Nurse	234	0.3
Father/Mother	78	0.1
Other	192	0.3
Unknown	402	0.5

D. Residents, Order of Birth to Mother

Total	75,321	100.0%[2]
1st Child	30,875	41.0
2nd Child	24,764	32.9
3rd Child	12,211	16.2
4th Child	4,587	6.1
5th Child	1,657	2.2
6th Child	654	.9
7th Child	282	.4
8th Child	132	.2
9th Child	60	.1
10th or more	89	.1
Unknown	10	

E. Residents, Maternal Smoking

	Number	Percent
Total	75,321	100.0%[2]
Yes	14,326	19.0
No	51,358	68.2
Unknown	9,637	12.8

F. Residents, Multiple Live Births

Sets of Twins	824
Sets of Triplets	11

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[1] Hispanic numbers are not included in the total sum.

[2] Detail may not add to 100% due to rounding.

Table 2 (continued)

Births in Washington State by Selected Topics, 1989

G. Residence and Occurrence, Sex by Birth Weight in Grams

	Residence				Occurrence			
Gram Weight	Total	Male	Female	Unknown	Total	Male	Female	Unknown
Total	75,321	38,528	36,793		74,030	37,875	36,155	
1,000 and under	346	197	149		331	188	143	
1,001 - 1,500	351	178	173		341	170	171	
1,501 - 2,000	796	402	394		774	392	382	
2,001 - 2,500	2,731	1,272	1,459		2,704	1,252	1,452	
2,501 - 3,000	9,779	4,247	5,532		9,587	4,159	5,428	
3,001 - 3,500	25,849	12,126	13,723		25,445	11,938	13,507	
3,501 - 4,000	24,735	13,326	11,409		24,294	13,103	11,191	
4,001 - 4,500	8,641	5,397	3,244		8,485	5,297	3,188	
4,501 and over	1,880	1,267	613		1,865	1,262	603	
Unknown	213	116	97		204	114	90	

H. Residence and Occurrence, Live Births and Fetal Deaths by Month

	Live Births		Fetal Deaths	
	Residence	Occurrence	Residence	Occurrence
Total	75,321	74,030	387	380
January	5,877	5,791	29	28
February	5,499	5,433	31	30
March	6,482	6,374	27	27
April	6,239	6,130	45	43
May	6,733	6,610	32	32
June	6,533	6,427	31	31
July	6,517	6,406	37	36
August	6,593	6,459	32	32
September	6,616	6,497	38	38
October	6,349	6,233	36	34
November	5,846	5,759	29	27
December	6,037	5,911	20	22

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[1] Detail may not add to 100% due to rounding.

Table 2 (continued)

Births in Washington State by Selected Topics, 1989

I. Occurrence, Method of Delivery

Method	Total	Normal Labor	Induced Labor	Unknown
Total	74,030	62,342	3,945	7,743
Vaginal Delivery	46,458	42,554	3,904	
Primary C-Section	1,102	1,099	3	
Repeat C-Section	4,625	4,621	4	
Vacuum Extraction	1,758	1,758		
Outlet Forceps	8,279	8,275	4	
Vaginal Delivery after Previous C-Section	3,786	3,782	4	
Other	279	253	26	
Unknown	7,743			

J. Occurrence, Type of Place

	Number	Percent
Total	74,030	100.0%[1]
General Hospital	68,274	92.2
Federal Facility	3,946	5.3
Home	1,314	1.8
Birth Center	229	.3
Born on Arrival	79	.1
Other and Unknown	188	.3

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[1] Detail may not add to 100% due to rounding.

S00310B-HBI

Table 3

Live Births by Mother's Race by Birth Weight, Washington State Residents 1989

Birth Weight in Grams	Total	White	African American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unknown	Hispanic[1]
State Total	75,321	65,237	2,827	1,886	123	81	326	3,289	5	1,547	4,727
1,000 and under	346	271	49	6			2	9		9	36
1,001 - 1,500	351	279	30	10	2			23		7	22
1,501 - 2,000	796	652	60	26	1	1	4	41		11	39
2,001 - 2,500	2,731	2,217	222	81	3	3	14	138		53	167
2,501 - 3,000	9,779	8,019	628	237	19	17	72	599		188	636
3,001 - 3,500	25,849	22,052	1,056	658	52	34	127	1,353	3	514	1,866
3,501 - 4,000	24,735	22,052	576	605	36	19	87	836	2	522	1,422
4,001 - 4,500	8,641	7,860	166	195	10	6	17	231		156	447
4,501 and over	1,880	1,700	35	65		1	2	46		31	85
Not Stated	213	135	5	3			1	13		56	7

S00310D-HBI

Table 4

Live Births by Child's Race by Birth Weight, Washington State Residents 1989

Birth Weight in Grams	Total	White	African American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unknown	Hispanic[1]
State Total	75,321	63,252	3,954	2,197	210	99	431	3,736	7	1,435	6,424
1,000 and under	346	260	55	9	1		2	10		9	46
1,001 - 1,500	351	269	37	11	1			26		7	28
1,501 - 2,000	796	636	75	26	1	1	5	41		11	52
2,001 - 2,500	2,731	2,133	271	94	6	4	23	147		53	228
2,501 - 3,000	9,779	7,736	780	296	29	18	92	654		174	855
3,001 - 3,500	25,849	21,370	1,436	755	85	42	170	1,518	5	468	2,482
3,501 - 4,000	24,735	21,395	926	719	67	24	112	1,005	2	485	1,989
4,001 - 4,500	8,641	7,645	316	220	17	9	21	268		145	609
4,501 and over	1,880	1,673	52	65	3	1	5	54		27	125
Not Stated	213	135	6	2			1	13		56	10

S00310C-HBI

Table 5

Live Births by Mother's Age by Birth Weight, Washington State Residents 1989

Birth Weight in Grams	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State Total	75,321	111	2,558	5,388	19,612	23,875	16,629	6,049	889	38	172
1,000 and under	346		29	35	75	93	72	34	6		2
1,001 - 1,500	351	3	18	30	88	87	97	26	1		1
1,501 - 2,000	796	4	43	59	215	215	169	81	6		4
2,001 - 2,500	2,731	5	122	212	735	771	620	214	40	2	10
2,501 - 3,000	9,779	28	429	879	2,664	2,963	1,902	759	118	10	27
3,001 - 3,500	25,849	43	999	2,040	6,968	8,180	5,400	1,873	277	10	59
3,501 - 4,000	24,735	18	697	1,588	6,296	8,054	5,698	2,051	278	10	45
4,001 - 4,500	8,641	9	179	462	2,114	2,817	2,119	798	122	5	16
4,501 and over	1,880	1	38	74	404	620	500	198	41	1	3
Not Stated	213		4	9	53	75	52	15			5

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[1] Hispanic numbers are not included in total sum.

S02680A-HBI

Table 6
Live Births by Mother's Age by Month Care Began, Wasington State Residents 1989

Month Prenatal Care Began	All Ages	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Total	75,321	111	2,558	5,388	19,612	23,875	16,629	6,049	889	38	172
First	12,077	4	173	423	2,489	4,361	3,261	1,184	153	1	28
Second	26,908	10	476	1,248	6,314	9,372	6,679	2,413	332	10	54
Third	15,988	18	542	1,231	4,374	4,898	3,490	1,217	183	12	23
Fourth	6,617	19	371	792	2,107	1,753	1,080	411	73	2	9
Fifth	3,670	18	293	545	1,263	890	455	172	26	2	6
Sixth	2,394	15	219	335	807	595	280	110	24	5	4
Seventh	1,577	4	149	243	528	397	179	59	15	1	2
Eighth	982	7	89	126	371	224	119	33	8	1	4
Ninth	422	2	39	62	146	105	45	20	2	1	
No Care	757	9	71	106	235	176	107	32	14		7
Unknown	3,929	5	136	277	978	1,104	934	398	59	3	35

S02690A-HBI

Table 7
Live Births by Number of Prenatal Visits by Month Care Began, Washington State Residents 1989

Number of Prenatal Visits	Month Care Began					
	Total	1-3	4-6	7-9	No Care	Unknown
Total	75,321	54,973	12,681	2,981	757	3,929
9 or More	56,941	48,721	7,094	300		826
5 - 8	10,261	4,334	4,500	1,260		167
1 - 4	2,850	518	860	1,370		102
No Visits	911	2	1	4	727	177
Unknown	4,358	1,398	226	47	30	2,657

S02500A-HBI

Table 8. Live Birth Intercounty Travel Patterns

Occurrence → Residence ↓	Adams	Asotin	Benton	Chelan	Clallam	Clark	Columbia	Cowlitz	Douglas	Ferry	Franklin	Garfield	Grant	Grays Harbor	Island	Jefferson	King
Adams	179		15								1		28				
Asotin																	
Benton	3		1,504			1					193						4
Chelan				848										1			20
Clallam					694									1		2	18
Clark				1		2,300		9									9
Columbia							1	11									
Cowlitz						48		1,151									2
Douglas				300					11				3		1		7
Ferry										10			1				
Franklin	23		327								420		2				
Garfield																	
Grant	91		11	85							4		650				4
Grays Harbor					1			2						636			17
Island															705		52
Jefferson					23			1						3		144	14
King			1		3	3		5			1				1	1	21,346
Kitsap					1			2							1	4	246
Kittitas			1	1													14
Klickitat			1			3											
Lewis						1		28						1			4
Lincoln													5				
Mason					1									2			11
Okanogan				4		1							18				2
Pacific						1		8						67			3
Pend Oreille													1				
Pierce				1	1	1		1									824
San Juan															1		7
Skagit					1						1				11		40
Skamania						21		2									
Snohomish				2							1				3		2,604
Spokane			1										1				2
Stevens																	
Thurston								1						6			42
Wahkiakum								32									
Walla Walla			22								10						2
Whatcom															2		36
Whitman			1														
Yakima			229								2						13
Out-of-State			32	5	3	42		159			9		1	3		2	68

Residence and Occurrence, Washington State 1989

Kitsap	Kittitas	Klickitat	Lewis	Lincoln	Mason	Okanogan	Pacific	Pend Oreille	Pierce	San Juan	Skagit	Skamania	Snohomish	Spokane	Stevens	Thurston	Wahkiakum	Walla Walla	Whatcom	Whitman	Yakima	Out-of-State
														28							1	
														4						7		244
			1											8				2			71	11
						11								5				1	1		1	1
3									3										1			1
			1						3							1					1	1,365
														1				36				
			2				2		4		2		1			3						84
						49			1				1	4								1
						4								15	47							
									3					3				4			1	3
														3				1		2		20
	9			3		4	1		2					44							8	1
	2		33		3		10		30				2			168					2	2
2									12		119		41						3		1	8
10					1								1								1	
5	1	1				1			697		3		243	4		8			5	1	5	51
2,471			1						325				8	1		3		1	1		1	12
	255								1				2	1							36	2
		158												1							7	69
			742						25		1			2		72					2	8
				9										81								1
102			3		167				34							127						1
						457								27					1			
			8				25		1							14						105
								20						88	22							15
44			5		1				9,053		1		2	4		30			1		2	24
									1	9	84		2						3			
									5		1,071		20						10	1		1
		44										3						1				43
3									15		110		5,077	2		1			3		2	10
1						1		1	3					5,374	3					1	2	36
														191	256							3
1			107		4				411					1		1,680						7
																						5
														5				572				4
											44		1	1					1,650			3
														57				1		294		41
1		1							5		2		1			1		1	2		3,405	7
2	1	27	2		1	1		9	35		3		9	198		4		211	5	37	9	

Table 9

Live Births with Rates by Place of Residence by Sex and Place of Occurrence, Washington State 1989

County and City	Residence				Occurrence	
	Number	Rate	Male	Female	Number	Rate
State Totals	75,321	16.2	38,528	36,793	74,030	15.9
Adams	252	18.8	135	117	296	22.1
Asotin	255	14.5	122	133		
Benton	1,798	17.3	886	912	2,145	20.6
Kennewick	847	23.0	418	429	891	24.2
Richland	431	14.4	209	222	911	30.4
Chelan	889	18.3	451	438	1,247	25.7
Wenatchee	369	18.5	181	188	1,150	57.6
Clallam	723	13.1	377	346	728	13.2
Port Angeles	263	15.0	132	131	632	36.1
Clark	3,690	16.7	1,922	1,768	2,423	11.0
Vancouver	1,623	36.5	856	767	2,397	53.9
Columbia	49	12.0	31	18	1	.2
Cowlitz	1,299	15.8	637	662	1,413	17.2
Kelso	281	24.9	135	146	7	.6
Longview	604	19.9	295	309	1,401	46.2
Douglas	378	14.9	192	186	11	.4
Ferry	77	12.6	42	35	10	1.6
Franklin	786	23.0	412	374	642	18.8
Pasco	544	31.0	291	253	638	36.3
Garfield	26	11.3	12	14		
Grant	917	17.7	469	448	710	13.7
Moses Lake	203	18.8	95	108	588	54.4
Grays Harbor	908	14.3	477	431	720	11.3
Aberdeen	260	15.2	130	130	710	41.4
Island	943	17.1	471	472	725	13.1
Oak Harbor	436	29.5	215	221	7	.5
Jefferson	198	10.3	100	98	153	8.0
King	22,386	15.5	11,458	10,928	25,422	17.6
Auburn	667	20.5	357	310	822	25.3
Bellevue	1,090	12.6	589	501	2,459	28.5
Bothell	182	17.4	105	77	9	.9
Des Moines	164	11.1	82	82	3	.2
Kent	718	20.6	375	343	34	1.0
Kirkland	481	13.1	225	256	2,092	57.1
Mercer Island	175	8.6	91	84	4	.2
Redmond	492	14.7	240	252	1,673	50.1
Renton	713	18.5	390	323	2,926	76.0
Seattle	7,254	14.6	3,690	3,564	13,991	28.1
Kitsap	3,078	17.0	1,524	1,554	2,645	14.6
Bremerton	1,036	27.9	520	516	1,932	52.1
Kittitas	313	12.3	169	144	268	10.6
Ellensburg	143	12.2	75	68	266	22.7
Klickitat	239	14.3	115	124	231	13.8
Lewis	886	15.3	432	454	906	15.6
Centralia	234	19.8	111	123	724	61.1
Lincoln	96	10.9	52	44	12	1.4
Mason	448	11.9	231	217	177	4.7
Okanogan	510	16.1	247	263	528	16.7
Pacific	232	13.1	129	103	38	2.1
Pend Oreille	146	16.4	70	76	30	3.4
Pierce	9,995	17.8	5,116	4,879	10,669	19.0
Puyallup	473	22.2	226	247	1,536	72.1
Tacoma	3,368	20.8	1,717	1,651	6,556	40.4
San Juan	107	11.0	53	54	9	.9
Skagit	1,161	16.0	617	544	1,440	19.9
Anacortes	127	12.0	65	62	215	20.3
Mount Vernon	336	22.7	167	169	904	61.1
Skamania	114	14.1	57	57	3	.4
Snohomish	7,833	18.2	3,953	3,880	5,411	12.6
Edmonds	420	14.1	225	195	1,656	55.7
Everett	1,697	26.4	837	860	3,066	47.8
Lynnwood	762	29.0	394	368	15	.6
Mountlake Terrace	314	17.9	152	162	6	.3
Spokane	5,426	15.2	2,859	2,567	6,155	17.2
Spokane (city)	3,321	19.5	1,764	1,557	5,704	33.4
Stevens	450	14.8	232	218	328	10.8
Thurston	2,260	14.6	1,205	1,055	2,112	13.6
Lacey	251	14.8	133	118	2	.1
Olympia	704	22.7	381	323	2,091	67.3
Wahkiakum	37	10.6	16	21		
Walla Walla	615	12.6	308	307	831	17.0
Walla Walla (city)	375	14.6	190	185	831	32.3
Whatcom	1,737	14.2	875	862	1,690	13.8
Bellingham	689	14.6	338	351	1,665	35.2
Whitman	394	10.5	186	208	343	9.1
Pullman	210	9.4	103	107	306	13.7
Yakima	3,670	19.5	1,888	1,782	3,558	18.9
Yakima (city)	1,091	21.6	580	511	2,646	52.3

Rates per 1,000 population.

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Table 10

Live Births by Mother's Age Group by Place of Residence, Washington State 1989

County and City	All Ages	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State Totals	75,321	111	2,558	5,388	19,612	23,875	16,629	6,049	889	38	172
Adams	252	1	7	15	91	77	38	15	7	1	
Asotin	255	1	11	36	88	75	32	10	2		
Benton	1,798	1	61	148	501	551	404	117	13	2	
Kennewick	847	1	37	86	274	235	165	43	6		
Richland	431		6	26	108	138	105	45	2	1	
Chelan	889	1	40	71	250	274	180	64	8		1
Wenatchee	369	1	20	33	105	107	76	22	4		1
Clallam	723	2	29	84	191	215	139	58	5		
Port Angeles	263	1	9	29	65	74	57	26	2		
Clark	3,690	2	123	289	975	1,207	767	267	49	1	10
Vancouver	1,623	2	68	171	520	496	254	90	18		4
Columbia	49			6	13	17	6	7			
Cowlitz	1,299	2	61	144	429	388	205	53	15		2
Kelso	281	1	15	40	99	76	37	12	1		
Longview	604	1	32	64	202	183	90	24	7		1
Douglas	378		22	30	105	117	78	21	3	1	1
Ferry	77		6	5	25	27	10	3	1		
Franklin	786	5	51	87	236	207	138	52	10		
Pasco	544	5	44	68	183	138	75	26	5		
Garfield	26			2	6	7	6	5			
Grant	917	4	41	92	264	282	178	47	7	2	
Moses Lake	203		9	27	51	70	34	11		1	
Grays Harbor	908	1	60	84	283	265	150	54	11		
Aberdeen	260		18	23	90	66	42	16	5		
Island	943		16	55	306	315	183	57	8		3
Oak Harbor	436		4	35	159	139	80	14	2		3
Jefferson	198	1	8	12	54	42	47	27	6	1	
King	22,386	25	503	1,010	4,363	7,136	6,320	2,554	354	14	107
Auburn	667		21	63	238	187	120	35	2		1
Bellevue	1,090		16	36	173	358	337	145	22		3
Bothell	182	1	2	7	38	65	51	17			1
Des Moines	164		3	6	50	53	41	10	1		
Kent	718		29	50	237	242	112	36	10		2
Kirkland	481		3	15	87	170	156	44	6		
Mercer Island	175		1	1	10	41	82	34	6		
Redmond	492		9	14	73	165	153	70	6		2
Renton	713	2	12	41	197	251	155	36	14	1	4
Seattle	7,254	19	210	362	1,234	1,975	2,142	1,086	163	6	57
Kitsap	3,078	2	105	217	921	967	583	240	33	4	6
Bremerton	1,036		48	95	404	297	136	48	5	1	2
Kittitas	313		12	20	88	91	68	29	5		
Ellensburg	143		6	12	47	37	25	12	4		
Klickitat	239		18	20	86	69	29	14	3		
Lewis	886	1	44	122	263	267	132	46	9	1	1
Centralia	234		12	45	75	61	35	5	1		
Lincoln	96		1	7	20	36	25	7			
Mason	448		29	46	128	124	84	30	7		
Okanogan	510	2	30	50	158	146	81	39	4		
Pacific	232	1	11	22	73	73	36	15			1
Pend Oreille	146		9	20	43	43	25	5	1		
Pierce	9,995	17	371	815	3,149	3,162	1,820	572	83	3	3
Puyallup	473		20	32	119	184	96	16	6		
Tacoma	3,368	10	164	299	1,056	1,016	600	192	29	1	1
San Juan	107		1	3	12	23	43	21	4		
Skagit	1,161	4	43	100	312	383	235	71	11	1	1
Anacortes	127		2	12	28	48	26	9	1	1	
Mount Vernon	336	1	16	33	102	102	59	18	4		1
Skamania	114		9	10	34	36	17	6	2		
Snohomish	7,833	4	216	493	1,876	2,754	1,812	569	91	2	16
Edmonds	420		12	20	73	146	115	45	6		3
Everett	1,697	1	75	165	542	537	285	77	13		2
Lynnwood	762		16	68	196	284	135	51	9		3
Mountlake Terrace	314		4	10	80	131	63	22	4		
Spokane	5,426	7	197	466	1,571	1,705	1,071	357	46	2	4
Spokane (city)	3,321	6	143	324	998	1,011	623	193	20	1	2
Stevens	450		21	55	126	122	92	30	4		
Thurston	2,260	5	92	195	626	698	432	174	26	1	11
Lacey	251	1	11	31	72	81	42	11		1	1
Olympia	704	1	35	63	193	214	127	53	11		7
Wahkiakum	37	2	1	4	9	12	7	2			
Walla Walla	615	2	29	58	184	186	122	29	5		
Walla Walla (city)	375	1	20	44	129	100	63	14	4		
Whatcom	1,737	3	49	112	492	544	369	146	20		2
Bellingham	689	3	25	54	182	210	141	65	8		1
Whitman	394		1	18	91	150	99	30	4	1	
Pullman	210			7	43	81	55	21	3		
Yakima	3,670	15	230	365	1,170	1,082	566	206	32	1	3
Yakima (city)	1,091	4	79	111	363	318	158	51	6		1

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Table 11

Live Births by Mother's Race by Place of Residence, Washington State 1989

County and City	Total	White	African American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unknown	Hispanic[1]
State Totals	75,321	65,237	2,827	1,886	123	81	326	3,289	5	1,547	4,727
Adams	252	251		1							126
Asotin	255	243		10			1			1	2
Benton	1,798	1,718	14	16	3	1	3	32		11	234
Kennewick	847	809	3	8		1	2	19		5	123
Richland	431	401	6	6	3			12		3	13
Chelan	889	867	2	11			2	4		3	183
Wenatchee	369	354	1	7			2	3		2	57
Clallam	723	637	5	66			4	9		2	21
Port Angeles	263	242	2	14			2	3			8
Clark	3,690	3,495	48	38	2	7	7	81		12	83
Vancouver	1,623	1,499	39	22		2	4	53		4	51
Columbia	49	49									8
Cowlitz	1,299	1,253	3	18		1		13		11	27
Kelso	281	269	1	5				3		3	6
Longview	604	579	1	9		1		10		4	13
Douglas	378	368		5		1	1	2		1	73
Ferry	77	54		23							
Franklin	786	719	37	7		1	2	17		3	355
Pasco	544	490	32	6		1		12		3	288
Garfield	26	26									
Grant	917	886	7	13	3		1	3		4	224
Moses Lake	203	193	3	3	2		1			1	36
Grays Harbor	908	797		74				9		28	22
Aberdeen	260	237		14				2		7	5
Island	943	812	41	6	3	3	34	38		6	44
Oak Harbor	436	349	29	3	2	1	24	27		1	24
Jefferson	198	185		6	1			3		3	2
King	22,386	17,760	1,407	379	43	45	127	1,840	4	781	646
Auburn	667	607	3	24			1	19		13	14
Bellevue	1,090	862	29	6	3		3	138	1	48	37
Bothell (part)	182	160	1	3				8		10	3
Des Moines	164	133	11	2	1		3	8		6	6
Kent	718	633	24	12	2	1		28		18	26
Kirkland	481	427	4	1	3		1	20		25	15
Mercer Island	175	145	1	2	2	1		19		5	3
Redmond	492	422	7	2	1			37		23	10
Renton	713	581	50	12	2	1	6	43		18	20
Seattle	7,254	4,712	1,006	160	12	35	71	969		289	250
Kitsap	3,078	2,715	107	70	12	3	28	120		23	99
Bremerton	1,036	845	77	23	6	2	17	62		4	48
Kittitas	313	294	2	5	1		2	5		4	12
Ellensburg	143	133	1	2	1		2	4			7
Klickitat	239	214		21						4	17
Lewis	886	859	4	13	1			1		8	19
Centralia	234	224	1	6				1		2	9
Lincoln	96	96									2
Mason	448	395	2	27			1	7		16	11
Okanogan	510	411	1	94		1		1		2	80
Pacific	232	213	4	5				6		4	8
Pend Oreille	146	136		8			1			1	3
Pierce	9,995	8,163	926	197	29	2	52	563		63	353
Puyallup	473	442	2	7	3		2	11		8	8
Tacoma	3,368	2,493	457	92	8	1	24	273		20	118
San Juan	107	103	1		1			1		1	2
Skagit	1,161	1,097	2	36	1		4	14		7	133
Anacortes	127	122		1			1	3			2
Mount Vernon	336	315		8			2	6		5	62
Skamania	114	106		5			1			2	4
Snohomish	7,833	7,039	52	131	9	3	25	284		290	164
Edmonds	420	371	3	4			2	24		16	12
Everett	1,697	1,465	20	35	3	2	5	84		83	50
Lynnwood	762	678	6	12	2		3	45		16	19
Mountlake Terrace	314	271	2	3			2	31		5	6
Spokane	5,426	5,103	74	117	8	2	17	69		36	105
Spokane (city)	3,321	3,093	53	94	4	2	4	47		24	56
Stevens	450	399	1	34			1	3		12	4
Thurston	2,260	1,920	34	35	2	1	5	86	1	176	68
Lacey	251	211	4	2				11		23	8
Olympia	704	574	9	10			4	46		61	20
Wahkiakum	37	37									1
Walla Walla	615	594	7	8		1		3		2	105
Walla Walla (city)	375	363	5	3		1		3			63
Whatcom	1,737	1,588	5	121	1		2	29		11	74
Bellingham	689	611	1	55			1	17		4	22
Whitman	394	347	8	4	2	9		22		2	4
Pullman	210	168	7	3		8		22		2	3
Yakima	3,670	3,308	33	282	1		5	24		17	1,409
Yakima (city)	1,091	1,009	21	42				11		8	311

[1] Hispanic numbers are not included in total sum.

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Table 12

Live Births by Child's Race by Place of Residence, Washington State 1989

County and City	Total	White	African American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unknown	Hispanic[1]
State Totals	75,321	63,252	3,954	2,197	210	99	431	3,736	7	1,435	6,424
Adams	252	251		1							134
Asotin	255	242		11			1			1	4
Benton	1,798	1,690	29	25	6	1	3	34		10	288
Kennewick	847	792	13	12	1	1	2	21		5	156
Richland	431	395	10	7	5			12		2	22
Chelan	889	867	3	9			3	5		2	212
Wenatchee	369	354	1	6			3	4		1	67
Clallam	723	623	9	75			5	10		1	35
Port Angeles	263	235	4	18			3	3			11
Clark	3,690	3,414	81	59	3	10	9	105		9	139
Vancouver	1,623	1,453	66	31		4	4	61		4	84
Columbia	49	49									9
Cowlitz	1,299	1,224	17	29		1	1	19		8	66
Kelso	281	264	4	8				4		1	18
Longview	604	562	11	14		1		13		3	31
Douglas	378	365	1	6		1	1	3		1	88
Ferry	77	54		23							2
Franklin	786	707	45	8	1	1	2	19		3	306
Pasco	544	481	39	6		1		14		3	323
Garfield	26	26									1
Grant	917	870	13	15	6		2	6		4	257
Moses Lake	203	169	5	4	3		1			1	41
Grays Harbor	908	773	2	85				20		28	53
Aberdeen	260	226	2	19				6		7	17
Island	943	796	52	7	4	3	34	41		6	79
Oak Harbor	436	340	37	2	3	1	24	28		1	46
Jefferson	198	179		9	1			6		3	4
King	22,386	17,140	1,771	420	76	52	169	2,031	4	723	1,030
Auburn	667	589	14	27	4		3	19		11	25
Bothell	182	152	3	3	1			13		10	6
Bellevue	1,090	837	41	4	3		4	154	1	46	54
Des Moines	164	126	14	3	2		3	10		6	9
Kent	718	616	35	14	2	1	2	34		14	48
Kirkland	481	418	9	4	3	1	2	21		23	19
Mercer Island	175	141	3	2	2	1		21		5	5
Redmond	492	411	13	4	1	1	1	39		22	21
Renton	713	555	67	12	4	1	7	50		17	34
Seattle	7,254	4,480	1,190	155	19	38	88	1,015		269	375
Kitsap	3,078	2,605	166	102	14	3	38	127	1	22	169
Bremerton	1,036	796	111	30	7	2	23	63		4	77
Kittitas	313	284	4	9	1		2	9		4	14
Ellensburg	143	126	3	4	1		2	7			7
Klickitat	239	213	1	21						4	26
Lewis	886	846	6	19	1		2	4		8	47
Centralia	234	221	2	7			1	1		2	17
Lincoln	96	96									4
Mason	448	379	5	36			1	12		15	19
Okanogan	510	412	1	93		1		2		1	108
Pacific	232	209	5	8				6		4	18
Pend Oreille	146	133		11			1			1	5
Pierce	9,995	7,690	1,297	216	52	5	73	609		53	582
Puyallup	473	428	9	10	5		5	12		4	16
Tacoma	3,368	2,281	624	99	21	3	32	294		14	208
San Juan	107	103	1		1			1		1	3
Skagit	1,161	1,083	7	44	2		4	15		6	172
Anacortes	127	121		2			1	3			5
Mount Vernon	336	307	4	12			2	6		5	77
Skamania	114	103		8			1			2	5
Snohomish	7,833	6,852	122	175	17	5	39	343	1	279	305
Edmonds	420	360	8	8			2	26		16	17
Everett	1,697	1,417	44	47	4	2	8	95		80	88
Lynnwood	762	656	17	15	2		3	55		15	39
Mountlake Terrace	314	264	6	3		1	2	33	1	4	15
Spokane	5,426	4,962	148	149	16	4	23	98		26	176
Spokane (city)	3,321	2,988	110	118	10	4	9	66		16	102
Stevens	450	385	3	46			1	4		11	9
Thurston	2,260	1,850	71	53	4	1	7	103	1	170	114
Lacey	251	199	12	6			1	11		22	10
Olympia	704	550	21	14	1		5	55		58	34
Wahkiakum	37	35		2							1
Walla Walla	615	585	12	8	1	1		7		1	142
Walla Walla (city)	375	356	10	2		1		6			92
Whatcom	1,737	1,518	21	143	1		3	41		10	111
Bellingham	689	585	13	63			1	24		3	41
Whitman	394	340	10	6	2	10		25		1	8
Pullman	210	163	9	3		9		25		1	4
Yakima	3,670	3,299	51	265	1		6	31		17	1,589
Yakima (city)	1,091	994	36	37				16		8	378

[1] Hispanic numbers are not included in total sum.

Table 13

Live Births by Month by Place of Residence, Washington State 1989

County and City	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
State Totals	75,321	5,877	5,499	6,482	6,239	6,733	6,533	6,517	6,593	6,616	6,349	5,846	6,037
Adams	252	20	14	30	19	22	20	20	22	23	21	16	25
Asotin	255	18	15	17	19	20	26	19	24	21	22	22	32
Benton	1,798	143	130	168	144	158	163	157	135	162	165	145	128
Kennewick	847	68	56	69	73	81	68	81	71	69	77	79	55
Richland	431	37	29	37	27	43	32	41	29	49	43	30	34
Chelan	889	58	71	75	72	81	78	75	78	81	78	71	71
Wenatchee	369	27	31	31	29	38	35	31	30	33	30	28	28
Clallam	723	59	53	61	54	70	61	67	72	62	60	55	49
Port Angeles	263	20	19	24	18	29	24	23	25	24	17	21	19
Clark	3,690	268	247	329	314	294	323	325	345	318	327	284	316
Vancouver	1,623	105	89	135	130	141	143	159	157	153	146	128	137
Columbia	49	4	2	3	4	3	9	3	5	4	7	4	1
Cowlitz	1,299	104	94	108	98	120	128	115	108	116	91	93	124
Kelso	281	28	22	22	23	20	24	27	29	26	16	16	28
Longview	604	49	41	56	52	53	50	54	37	56	42	46	59
Douglas	378	35	30	28	28	34	28	45	31	17	44	25	33
Ferry	77	6	5	9	8	5	7	5	3	7	8	8	6
Franklin	786	65	62	58	50	73	80	63	89	65	58	79	44
Pasco	544	40	46	39	33	50	56	45	62	44	46	52	31
Garfield	26	2	3			1	4	2	5	1	6	2	
Grant	917	71	58	74	92	75	76	85	84	81	72	76	73
Moses Lake	203	16	19	22	24	12	18	18	13	15	12	17	17
Grays Harbor	908	74	66	75	73	69	75	102	86	77	82	63	66
Aberdeen	260	20	17	20	19	22	14	26	31	30	25	17	19
Island	943	80	75	71	69	95	86	99	79	79	73	63	74
Oak Harbor	436	32	31	32	29	43	51	36	36	38	43	27	38
Jefferson	198	11	10	24	19	18	17	15	16	17	18	18	15
King	22,386	1,794	1,601	1,951	1,859	2,064	1,800	1,893	1,978	2,016	1,848	1,709	1,783
Auburn	667	47	56	65	41	65	57	57	66	57	57	44	55
Bellevue	1,090	92	83	95	89	98	95	90	91	97	74	104	82
Bothell	182	18	15	17	19	14	16	9	14	11	14	14	21
Des Moines	164	9	13	21	12	13	14	12	13	16	15	16	10
Kent	718	58	49	50	51	66	60	63	78	62	59	60	62
Kirkland	481	50	33	36	43	45	37	40	54	46	39	27	31
Mercer Island	175	12	18	16	21	18	12	8	17	17	14	15	7
Redmond	492	43	31	48	39	57	37	47	42	50	27	37	34
Renton	713	51	62	64	61	73	48	71	56	54	55	53	65
Seattle	7,254	630	473	655	586	672	619	616	644	645	622	508	584
Kitsap	3,078	234	212	251	263	284	248	247	258	250	286	263	282
Bremerton	1,036	74	77	77	85	99	83	92	79	70	97	85	118
Kittitas	313	17	27	38	29	31	33	15	26	25	23	25	24
Ellensburg	143	8	15	18	11	13	10	9	12	9	13	13	12
Klickitat	239	21	5	19	28	22	22	26	24	16	14	27	15
Lewis	886	66	63	79	61	78	95	80	76	86	69	62	71
Centralia	234	20	10	18	18	21	23	19	23	21	23	17	21
Lincoln	96	7	6	10	13	9	9	7	8	7	4	9	7
Mason	448	42	39	35	36	38	28	40	31	42	41	39	37
Okanogan	510	38	46	45	36	46	47	41	44	46	42	47	32
Pacific	232	22	16	24	12	12	22	20	26	25	21	16	16
Pend Oreille	146	13	10	13	13	15	13	7	15	12	13	12	10
Pierce	9,995	758	774	837	853	850	857	860	874	892	842	773	825
Puyallup	473	31	33	42	37	45	44	35	48	30	44	44	40
Tacoma	3,368	236	253	267	281	306	274	298	302	289	293	278	291
San Juan	107	13	11	8	4	13	10	9	13	5	6	7	8
Skagit	1,161	96	78	115	74	93	109	110	95	93	82	105	111
Anacortes	127	9	7	17	8	10	15	10	10	9	9	12	11
Mount Vernon	336	33	25	39	23	23	28	31	19	30	19	32	34
Skamania	114	5	10	9	7	12	12	14	6	9	9	15	6
Snohomish	7,833	603	560	671	666	706	714	656	679	655	686	624	613
Edmonds	420	39	30	32	41	40	40	31	29	38	35	38	27
Everett	1,697	124	114	124	158	144	162	148	149	143	163	150	118
Lynnwood	762	70	63	72	60	67	58	48	78	77	52	53	64
Mountlake Terrace	314	26	21	26	26	34	29	27	29	25	26	28	17
Spokane	5,426	428	414	457	470	484	486	483	473	467	453	389	420
Spokane (city)	3,321	242	232	268	274	294	304	307	295	284	297	267	257
Stevens	450	34	33	35	35	46	32	34	42	33	49	46	31
Thurston	2,260	171	174	192	200	204	198	209	201	210	184	155	162
Lacey	251	17	11	23	30	22	29	22	19	21	16	20	21
Olympia	704	67	45	59	60	53	55	66	60	78	63	53	45
Wahkiakum	37	2	3	3	4	4	6	2	1	2	6	2	2
Walla Walla	615	42	46	56	43	57	53	51	56	61	56	42	52
Walla Walla (city)	375	25	25	35	28	31	33	31	35	38	33	25	36
Whatcom	1,737	143	123	155	136	149	151	168	132	145	138	148	149
Bellingham	689	46	52	64	62	53	69	63	47	47	57	66	63
Whitman	394	33	35	40	28	43	31	32	30	37	29	28	28
Pullman	210	16	20	18	11	23	17	18	15	18	14	19	21
Yakima	3,870	277	278	309	306	335	284	316	323	351	316	279	296
Yakima (city)	1,091	79	72	96	87	108	93	96	90	98	90	87	95

Table 14

Live Births by Birth Weight in Grams by Place of Residence, Washington State 1989

County and City	Total	1000 or Less	1001-1500	1501-2000	2001-2500	2501-3000	3001-3500	3501-4000	4001-4500	4501 and Over	Not Stated
State Totals	75,321	346	351	796	2,731	9,779	25,849	24,735	8,641	1,880	213
Adams	252	1		3	9	40	91	74	25	9	
Asotin	255	2		2	7	41	81	88	29	5	
Benton	1,798	9	17	15	61	239	596	590	220	51	
Kennewick	847	7	7	4	23	135	295	276	80	20	
Richland	431	2	4	3	20	41	124	153	71	13	
Chelan	889	4	7	10	31	130	300	293	98	11	5
Wenatchee	369	1	6	6	16	53	114	127	39	4	3
Clallam	723		4	12	21	86	226	260	87	24	3
Port Angeles	263		1	4	8	26	89	95	31	9	
Clark	3,690	20	22	37	130	459	1,189	1,270	464	93	6
Vancouver	1,623	11	14	19	54	237	543	528	179	36	2
Columbia	49				3	8	13	17	6	2	
Cowlitz	1,299	6	9	12	51	143	416	445	165	50	2
Kelso	281		1	4	10	33	83	99	37	12	2
Longview	604	3	6	4	28	74	194	212	60	23	
Douglas	378	2	1	7	15	44	117	142	43	7	
Ferry	77				2	7	29	20	14	5	
Franklin	786	2	4	10	22	134	299	209	90	16	
Pasco	544	1	3	9	14	95	208	148	58	8	
Garfield	26			2		2	11	9	1	1	
Grant	917	3	3	11	30	107	319	308	110	26	
Moses Lake	203	2	2	3	7	26	78	60	21	4	
Grays Harbor	908	3	4	15	36	130	315	288	95	13	9
Aberdeen	260			4	16	42	103	63	28	4	
Island	943		2	4	32	119	325	313	114	32	2
Oak Harbor	436			3	10	65	151	142	47	17	1
Jefferson	198			2	10	22	60	66	29	9	
King	22,386	112	107	238	849	2,892	7,750	7,374	2,475	543	46
Auburn	667	9	3	8	22	99	233	209	71	13	
Bellevue	1,090	9	4	9	44	124	376	363	132	28	1
Bothell	182		2	2	1	22	65	67	18	5	
Des Moines	164	2		2	8	18	51	57	21	5	
Kent	718	2	6	10	27	93	262	230	75	13	
Kirkland	481		3	6	16	44	164	177	52	19	
Mercer Island	175	1		1	7	21	64	53	25	3	
Redmond	492	2	2	5	12	51	185	171	54	8	2
Renton	713	4	5	10	29	82	269	219	80	12	3
Seattle	7,254	48	38	98	336	1,045	2,596	2,227	696	148	22
Kitsap	3,078	14	11	31	104	355	1,026	1,035	395	100	7
Bremerton	1,036	5	3	13	37	122	347	342	132	33	2
Kittitas	313	3	1	3	13	35	94	116	37	11	
Ellensburg	143			1	3	16	44	54	19	6	
Klickitat	239	4	5	2	5	28	96	77	21	1	
Lewis	886	5	4	8	46	94	286	307	109	20	7
Centralia	234	3	2	2	14	26	83	72	24	7	1
Lincoln	96	1		2	3	8	43	26	11	2	
Mason	448	1		4	7	55	137	157	63	18	6
Okanogan	510	3	5	5	19	67	187	166	50	8	
Pacific	232	3		4	10	37	87	62	26	3	
Pend Oreille	146		2	2	2	20	55	45	17	3	
Pierce	9,995	39	54	122	425	1,473	3,473	3,107	1,067	230	5
Puyallup	473	1	3	7	17	70	156	148	60	11	
Tacoma	3,368	17	18	39	162	535	1,180	1,009	332	73	3
San Juan	107		3			9	33	47	12	3	
Skagit	1,161	7	2	10	51	132	404	382	146	27	
Anacortes	127			1	1	11	48	45	21		
Mount Vernon	336	2		1	21	47	113	104	41	7	
Skamania	114		1	2	4	11	41	38	16	1	
Snohomish	7,833	33	28	66	231	919	2,620	2,736	958	237	5
Edmonds	420	2	2	5	17	51	140	144	45	14	
Everett	1,697	4	11	18	68	201	573	585	182	55	
Lynnwood	762	9	3	5	21	88	260	268	81	27	
Mountlake Terrace	314			3	7	43	112	102	38	8	1
Spokane	5,426	27	25	67	197	776	1,962	1,684	586	99	3
Spokane (city)	3,321	20	18	55	135	490	1,196	1,009	331	66	1
Stevens	450	1	1	3	15	66	158	155	42	9	
Thurston	2,260	11	1	27	81	260	713	727	277	62	101
Lacey	251			1	11	26	80	81	28	9	15
Olympia	704	4		10	20	95	241	207	65	23	39
Wahkiakum	37		1		2	3	15	9	6	1	
Walla Walla	615	1	1	4	22	73	238	187	71	17	1
Walla Walla (city)	375	1	1	3	14	51	153	106	36	9	1
Whatcom	1,737	4	11	16	51	187	559	627	235	45	2
Bellingham	689	1	6	7	15	71	228	238	105	17	1
Whitman	394	1		3	12	35	134	147	48	13	1
Pullman	210	1		3	7	19	81	77	16	5	1
Yakima	3,670	24	15	35	122	533	1,351	1,132	383	73	2
Yakima (city)	1,091	6	2	15	43	163	390	331	124	17	

Table 15

Multiple Births by Number Born Alive Each Set by Place of Residence, Washington State 1989

County and City	Sets of Twins			Sets of Triplets				Sets of Four or More
	2 Born Alive	1 Born Alive	None Alive	3 Born Alive	2 Born Alive	1 Born Alive	None Alive	Total
State Total	799	25		11				
Adams	4	1						
Asotin	4							
Benton	15	2						
Kennewick	4							
Richland	7	2						
Chelan	15			1				
Wenatchee	3			1				
Clallam	8							
Port Angeles	3							
Clark	42	2		2				
Vancouver	19			2				
Columbia								
Cowlitz	12							
Kelso	2							
Longview	8							
Douglas	5							
Ferry	1							
Franklin	7	1						
Pasco	2							
Garfield								
Grant	9							
Moses Lake	2							
Grays Harbor	13	1						
Aberdeen	4	1						
Island	8							
Oak Harbor	1							
Jefferson	1							
King	216	7		4				
Auburn	7							
Bellevue	20	1						
Bothell	1							
Des Moines	1							
Kent	8			1				
Kirkland	6							
Mercer Island	2							
Redmond	4							
Renton	4							
Seattle	75	1		2				
Kitsap	35							
Bremerton	11							
Kittitas	3							
Ellensburg	1							
Klickitat	3							
Lewis	11							
Centralia	5							
Lincoln	1							
Mason	2							
Okanogan	6							
Pacific	6							
Pend Oreille								
Pierce	111	5		1				
Puyallup	6							
Tacoma	32	2		1				
San Juan	3							
Skagit	10							
Anacortes								
Mount Vernon	3							
Skamania	1							
Snohomish	82	1		1				
Edmonds	7							
Everett	17							
Lynnwood	8							
Mountlake Terrace	5							
Spokane	61	5		2				
Spokane (city)	45	3		2				
Stevens	9							
Thurston	25							
Lacey	3							
Olympia	6							
Wahkiakum	1							
Walla Walla	7							
Walla Walla (city)	4							
Whatcom	26							
Bellingham	11							
Whitman	3							
Pullman	1							
Yakima	33							
Yakima (city)	11							

Table 16

Live Births with Malformations with Percent of Total Births by Place of Residence, Washington State 1989

County and City	Total Births	Births with Malformations	Percent of Total Births[1]	Total Malformations[2]
State Totals	75,321	1,958	2.6	2,200
Adams	252	3	1.2	3
Asotin	255	13	5.1	16
Benton	1,798	59	3.3	68
Kennewick	847	21	2.5	26
Richland	431	16	3.7	19
Chelan	889	18	2.0	26
Wenatchee	369	6	1.6	6
Clallam	723	17	2.4	22
Port Angeles	263	7	2.7	10
Clark	3,690	59	1.6	64
Vancouver	1,623	24	1.5	25
Columbia	49			
Cowlitz	1,299	23	1.8	24
Kelso	281	4	1.4	4
Longview	604	13	2.2	14
Douglas	378	4	1.1	7
Ferry	77	1	1.3	1
Franklin	786	22	2.8	23
Pasco	544	14	2.6	15
Garfield	26			
Grant	917	14	1.5	18
Moses Lake	203	4	2.0	4
Grays Harbor	908	16	1.8	16
Aberdeen	260	8	3.1	8
Island	943	34	3.6	40
Oak Harbor	436	14	3.2	16
Jefferson	198	3	1.5	4
King	22,386	452	2.0	498
Auburn	667	11	1.6	12
Bellevue	1,090	37	3.4	39
Bothell (part)	182	1	0.5	1
Des Moines	164	3	1.8	3
Kent	718	6	0.8	6
Kirkland	481	9	1.9	9
Mercer Island	175	6	3.4	6
Redmond	492	22	4.5	24
Renton	713	10	1.4	11
Seattle	7,254	147	2.0	168
Kitsap	3,078	115	3.7	130
Bremerton	1,036	40	3.9	45
Kittitas	313	2	0.6	2
Ellensburg	143	1	0.7	1
Klickitat	239	11	4.6	11
Lewis	886	20	2.3	26
Centralia	234	6	2.6	8
Lincoln	96	5	5.2	5
Mason	448	9	2.0	9
Okanogan	510	13	2.5	15
Pacific	232	5	2.2	5
Pend Oreille	146	2	1.4	3
Pierce	9,995	435	4.4	486
Puyallup	473	22	4.7	22
Tacoma	3,368	98	2.9	113
San Juan	107	1	0.9	1
Skagit	1,161	25	2.2	25
Anacortes	127	2	1.6	2
Mount Vernon	336	8	2.4	8
Skamania	114	5	4.4	5
Snohomish	7,833	250	3.2	260
Edmonds	420	10	2.4	10
Everett	1,697	59	3.5	71
Lynnwood	762	15	2.0	18
Mountlake Terrace	314	9	2.9	10
Spokane	5,426	129	2.4	143
Spokane (city)	3,321	91	2.7	98
Stevens	450	16	3.6	19
Thurston	2,260	47	2.1	51
Lacey	251	1	0.4	1
Olympia	704	10	1.4	11
Wahkiakum	37			
Walla Walla	615	26	4.2	30
Walla Walla (city)	375	13	3.5	16
Whatcom	1,737	54	3.1	69
Bellingham	689	22	3.2	28
Whitman	394	13	3.3	14
Pullman	210	10	4.8	11
Yakima	3,670	37	1.0	41
Yakima (city)	1,091	8	0.7	8

[1] Total may not add up to 100% due to rounding.
[2] Individual births may have more than one malformation.

Table 17

Live Births with Maternal Smoking by Mother's Place of Residence, Washington State 1989

County and City	Total Births	Births with Maternal Smoking		Births with No Maternal Smoking		Births with Maternal Smoking Unknown	
		Number	Percent	Number	Percent	Number	Percent
State Totals	75,321	14,326	19.0	51,358	68.2	9,637	12.8
Adams	252	39	15.5	212	84.1	1	0.4
Asotin	255	74	29.0	178	69.8	3	1.2
Benton	1,798	341	19.0	1,418	78.9	39	2.2
Kennewick	847	182	21.5	641	75.7	24	2.8
Richland	431	81	18.8	350	81.2		
Chelan	889	126	14.2	728	81.9	35	3.9
Wenatchee	369	59	16.0	300	81.3	10	2.7
Clallam	723	170	23.5	474	65.6	79	10.9
Port Angeles	263	67	25.5	171	65.0	25	9.5
Clark	3,690	761	20.6	2,302	62.4	627	17.0
Vancouver	1,623	430	26.5	926	57.1	267	16.5
Columbia	49	13	26.5	35	71.4	1	2.0
Cowlitz	1,299	229	17.6	1,028	79.1	42	3.2
Kelso	281	52	18.5	219	77.9	10	3.6
Longview	604	103	17.1	487	80.6	14	2.3
Douglas	378	51	13.5	309	81.7	18	4.8
Ferry	77	22	28.6	52	67.5	3	3.9
Franklin	786	99	12.6	671	85.4	16	2.0
Pasco	544	80	14.7	453	83.3	11	2.0
Garfield	26	7	26.9	19	73.1		
Grant	917	166	18.1	732	79.8	19	2.1
Moses Lake	203	33	16.3	167	82.3	3	1.5
Grays Harbor	908	290	31.9	482	53.1	136	15.0
Aberdeen	260	105	40.4	131	50.4	24	9.2
Island	943	208	22.1	717	76.0	18	1.9
Oak Harbor	436	91	20.9	334	76.6	11	2.5
Jefferson	198	29	14.6	160	80.8	9	4.5
King	22,386	3,215	14.4	15,062	67.3	4,109	18.4
Auburn	667	218	32.7	390	58.5	59	8.8
Bellevue	1,090	116	10.6	831	76.2	143	13.1
Bothell (part)	182	23	12.6	137	75.3	22	12.1
Des Moines	164	30	18.3	93	56.7	41	25.0
Kent	718	181	25.2	447	62.3	90	12.5
Kirkland	481	56	11.6	381	79.2	44	9.1
Mercer Island	175	10	5.7	121	69.1	44	25.1
Redmond	492	47	9.6	385	78.3	60	12.2
Renton	713	143	20.1	455	63.8	115	16.1
Seattle	7,254	805	11.1	4,481	61.8	1,968	27.1
Kitsap	3,078	758	24.6	2,107	68.5	213	6.9
Bremerton	1,036	309	29.8	694	67.0	33	3.2
Kittitas	313	73	23.3	232	74.1	8	2.6
Ellensburg	143	29	20.3	112	78.3	2	1.4
Klickitat	239	77	32.2	160	66.9	2	0.8
Lewis	886	195	22.0	588	66.4	103	11.6
Centralia	234	56	23.9	149	63.7	29	12.4
Lincoln	96	9	9.4	81	84.4	6	6.2
Mason	448	122	27.2	235	52.5	91	20.3
Okanogan	510	132	25.9	363	71.2	15	2.9
Pacific	232	65	28.0	153	65.9	14	6.0
Pend Oreille	146	63	43.2	73	50.0	10	6.8
Pierce	9,995	1,964	19.6	6,307	63.1	1,724	17.2
Puyallup	473	82	17.3	348	73.6	43	9.1
Tacoma	3,368	707	21.0	1,893	56.2	768	22.8
San Juan	107	8	7.5	96	89.7	3	2.8
Skagit	1,161	234	20.2	894	77.0	33	2.8
Anacortes	127	39	30.7	86	67.7	2	1.6
Mount Vernon	336	75	22.3	248	73.8	13	3.9
Skamania	114	40	35.1	64	56.1	10	8.8
Snohomish	7,833	1,718	21.9	5,428	69.3	687	8.8
Edmonds	420	70	16.7	290	69.0	60	14.3
Everett	1,697	533	31.4	1,110	65.4	54	3.2
Lynnwood	762	148	19.4	501	65.7	113	14.8
Mountlake Terrace	314	44	14.0	203	64.6	67	21.3
Spokane	5,426	1,442	26.6	3,790	69.8	194	3.6
Spokane (city)	3,321	1,007	30.3	2,198	66.2	116	3.5
Stevens	450	117	26.0	321	71.3	12	2.7
Thurston	2,260	324	14.3	1,092	48.3	844	37.3
Lacey	251	35	13.9	102	40.6	114	45.4
Olympia	704	81	11.5	308	43.7	315	44.7
Wahkiakum	37	7	18.9	30	81.1		
Walla Walla	615	141	22.9	454	73.8	20	3.3
Walla Walla (city)	375	101	26.9	258	68.8	16	4.3
Whatcom	1,737	285	16.4	1,163	67.0	289	16.6
Bellingham	689	118	17.1	440	63.9	131	19.0
Whitman	394	38	9.6	345	87.6	11	2.8
Pullman	210	15	7.1	194	92.4	1	0.5
Yakima	3,870	674	18.4	2,803	76.4	193	5.3
Yakima (city)	1,091	279	25.6	795	72.9	17	1.6

Table 18

Live Births to Single Mothers by Place of Residence by Age of Mother, Washington State 1989

County and City	All Ages	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State Totals	17,615	108	2,102	3,266	6,034	3,629	1,739	573	102	8	54
Adams	59	1	6	10	22	11	3	3	3		
Asotin	87	1	9	19	34	20	4				
Benton	421	1	46	87	162	78	34	12	1		
Kennewick	260	1	28	54	97	54	19	7			
Richland	70		6	12	28	12	9	3			
Chelan	237	1	33	44	68	48	32	9	2		
Wenatchee	121	1	16	23	39	23	11	6	2		
Clallam	227	2	26	58	61	42	23	13	2		
Port Angeles	89	1	7	21	23	15	13	7	2		
Clark	917	2	100	182	307	197	89	23	8		9
Vancouver	549	2	52	119	193	123	44	9	4		3
Columbia	10			5	4			1			
Cowlitz	376	2	45	78	133	73	26	17	1		1
Kelso	110	1	12	25	39	20	6	7			
Longview	179	1	24	34	65	34	13	7			1
Douglas	85		15	10	26	22	8	3	1		
Ferry	25		6	3	8	6	2				
Franklin	252	5	35	43	85	48	26	8	2		
Pasco	211	5	29	34	75	37	22	7	2		
Garfield	6			1	1	3		1			
Grant	239	4	32	46	82	49	20	6			
Moses Lake	56		5	15	17	14	4	1			
Grays Harbor	321	1	47	57	108	65	28	14	1		
Aberdeen	105		14	14	42	24	7	3	1		
Island	82		9	12	31	17	12	1			
Oak Harbor	31		1	8	11	6	5				
Jefferson	66	1	7	10	25	8	11	3	1		
King	4,474	25	450	694	1,512	1,007	555	168	30	4	29
Auburn	212		18	46	83	35	24	5			1
Bellevue	138		12	22	49	32	14	8			1
Bothell (part)	22	1	2	5	6	5	1	1			1
Des Moines	43		2	2	19	13	7				
Kent	180		22	32	68	36	14	6			2
Kirkland	60		3	9	20	13	12	3			
Mercer Island	8		1	1	1	2	3				
Redmond	60		8	11	18	8	11	1	2		1
Renton	165	2	8	23	65	40	21	4		1	1
Seattle	1,899	19	195	277	590	427	262	97	17		15
Kitsap	569	2	82	123	200	96	47	13	5	1	
Bremerton	238		36	46	93	39	18	4	1	1	
Kittitas	67		8	7	19	17	9	6	1		
Ellensburg	32		5	4	12	6	2	2	1		
Klickitat	73		10	11	30	13	8	1			
Lewis	264	1	36	70	80	51	20	6			
Centralia	96		11	28	25	24	8				
Lincoln	13		1	4	5	2		1			
Mason	136		26	31	41	20	13	4	1		
Okanogan	177	1	23	29	61	39	15	9			
Pacific	62	1	6	15	20	10	6	3			1
Pend Oreille	41		7	10	12	6	5		1		
Pierce	2,561	17	303	485	891	519	248	85	12		1
Puyallup	99		13	19	37	19	6	3	2		
Tacoma	1,158	10	141	204	395	246	111	43	7		1
San Juan	17		1	1	3	2	6	3	1		
Skagit	312	4	36	56	114	64	33	3	2		
Anacortes	31		1	10	9	6	4		1		
Mount Vernon	100	1	15	18	40	18	7	1			
Skamania	39		6	6	12	11	3		1		
Snohomish	1,470	4	189	307	481	309	113	54	6	1	6
Edmonds	68		12	12	18	15	5	4			2
Everett	503	1	66	104	185	95	32	18	1		1
Lynnwood	162		12	45	52	32	16	4			1
Mountlake Terrace	38		3	4	16	12	3				
Spokane	1,399	6	160	287	509	275	114	41	6		1
Spokane (city)	1,057	6	119	214	379	216	88	31	3		1
Stevens	108		15	25	37	20	11				
Thurston	518	5	75	101	162	108	48	13	2		4
Lacey	72	1	8	17	22	13	8	3			
Olympia	201	1	28	36	62	47	20	3			4
Wahkiakum	7	2	1	2	1	1					
Walla Walla	170	1	24	34	70	29	11	1			
Walla Walla (city)	128	1	17	30	54	18	7	1			
Whatcom	366	3	40	61	136	74	39	12	1		
Bellingham	180	3	22	34	63	35	17	6			
Whitman	57		1	13	23	13	4	2		1	
Pullman	29			4	13	7	3	2			
Yakima	1,305	15	186	229	458	256	113	34	11	1	2
Yakima (city)	422	4	70	72	154	79	26	13	3		1

Table 19

Live Births by Institutions by Place of Occurrence, Washington State 1989

County and City	Total	General Hospital	Birth Center	Federal Facility	Home	Born On Arrival	Other and Not Stated
State Total	74,030	68,274	229	3,946	1,314	79	188
Adams	296	293			3		
Asotin							
Benton	2,145	2,137			8		
Kennewick	891	889			2		
Richland	911	908			3		
Chelan	1,247	1,227			20		
Wenatchee	1,150	1,142			8		
Clallam	728	705			18	1	4
Port Angeles	632	622			9	1	
Clark	2,423	2,366			54	1	2
Vancouver	2,397	2,366			30	1	
Columbia	1				1		
Cowlitz	1,413	1,386			26	1	
Kelso	7				7		
Longview	1,401	1,386			14	1	
Douglas	11				10		1
Ferry	10	7			3		
Franklin	642	637			3		2
Pasco	638	637			1		
Garfield							
Grant	710	694			14	1	1
Moses Lake	588	583			5		
Grays Harbor	720	709			11		
Aberdeen	710	708			2		
Island	725	333		372	18	1	1
Oak Harbor	7	2			5		
Jefferson	153	140			13		
King	25,422	25,002	18		327	36	39
Auburn	822	806			15	1	
Bothell	9				9		
Bellevue	2,459	2,446			12	1	
Des Moines	3				3		
Kent	34				34		
Kirkland	2,092	2,048	1		13	1	29
Mercer Island	4	1			3		
Redmond	1,673	1,656			14	3	
Renton	2,926	2,906			16	4	
Seattle	13,991	13,773	17		166	25	10
Kitsap	2,645	1,916		682	43	3	1
Bremerton	1,932	1,916			13	3	
Kittitas	268	262			5		1
Ellensburg	266	262			4		
Klickitat	231	229			2		
Lewis	906	777			129		
Centralia	724	702			22		
Lincoln	12	11			1		
Mason	177	165			11		1
Okanogan	528	516			10	1	1
Pacific	38	30			8		
Pend Oreille	30	29			1		
Pierce	10,669	7,919	87	2,478	125	7	53
Puyallup	1,536	1,518			18		
Tacoma	6,556	6,401	87		61	7	
San Juan	9				7		2
Skagit	1,440	1,284	121		29	1	5
Anacortes	215	203			11		1
Mount Vernon	904	772	121		7	1	3
Skamania	3				3		
Snohomish	5,411	5,177			215	5	14
Edmonds	1,656	1,639			16		1
Everett	3,066	3,020			41	4	1
Lynnwood	15				15		
Mountlake Terrace	6				6		
Spokane	6,155	5,678		414	52	5	6
Spokane (city)	5,704	5,654			39	5	6
Stevens	328	314			13	1	
Thurston	2,112	1,987	3		67	4	51
Lacey	2				2		
Olympia	2,091	1,986	3		47	4	51
Wahkiakum							
Walla Walla	831	828			3		
Walla Walla (city)	831	828			3		
Whatcom							
Bellingham							
Whitman	343	341			2		
Pullman	306	304			2		
Yakima	3,558	3,545			7	6	
Yakima (city)	2,646	2,639			4	3	

MORTALITY

Mortality - 1989 At A Glance

Washington State 1989

Item	Data	Trend[2]	Comparable US Data3
Number of Deaths	36,049	-	
Death Rate (deaths per 1,000 population)	7.7	N	8.7
Five Leading Cause[1] Death Rates (deaths per 100,000 population)			
Diseases of the Heart	239.5	-	300.3
Malignant Neoplasms	186.8	+	196.8
Cerebrovascular Disease	57.5	N	59.2
Chronic Obstructive Pulmonary Disease	40.4	+	33.8
All Accidents	35.9	-	37.7

[1] Mortality Table 1 gives International List Numbers (ICD-9 codes) for these causes.

[2] - = decreasing, + = increasing, N = no change.

[3] Rates by cause are provisional, based on a ten percent sample.

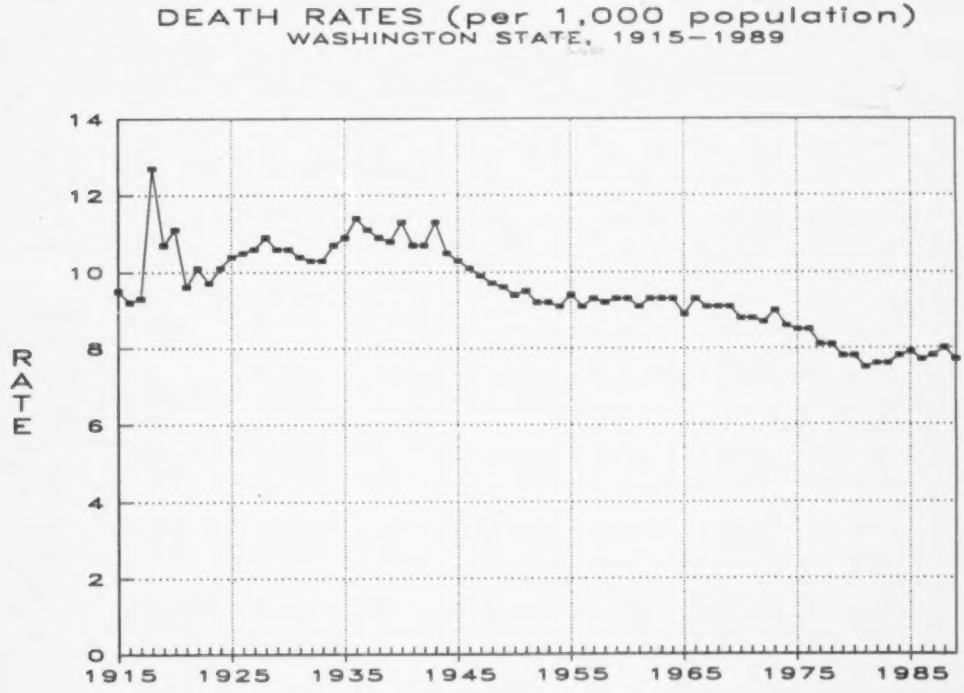


Figure 5

Is Washington State Meeting 1990 Mortality Goals?*

1990 Goals, Washington State and US Death Rates[1] Compared

	Washington State		United States	
	Current[2]	Projected 1990	Current[3]	1990 Goal
General Health				
Ages 1-14	30.0	31	31.8	34.0
15-24	92.0	94	103.9	92.0
25-64	335.4	335	414.1	400.0
Injury Prevention				
Motor Vehicle Accidents	19.0	19	19.2	18.0
Children under 15	6.5	7	6.9	5.5
Home Accidents				
Children under 15	4.4	4	5.0	5.0
Falls	5.2	5	4.8	2.0
Drowning	2.1	2	1.8	1.5
Stress and Violent Behavior				
Suicide: Ages 15-24	16.3	17	12.9	11.0
Male	24.8	27	19.9	11.0
Female	7.7	7	5.1	11.0
Alcohol Abuse				
Cirrhosis of the Liver	10.1	10	10.6	12.0
White	10.1	10	10.4	12.0
African American	9.7	11	13.2	12.0
Native American	39.1	31	Not Available	12.0

[1] Rates based on deaths/100,000 population in group.

[2] Data Years: 1988-1989.

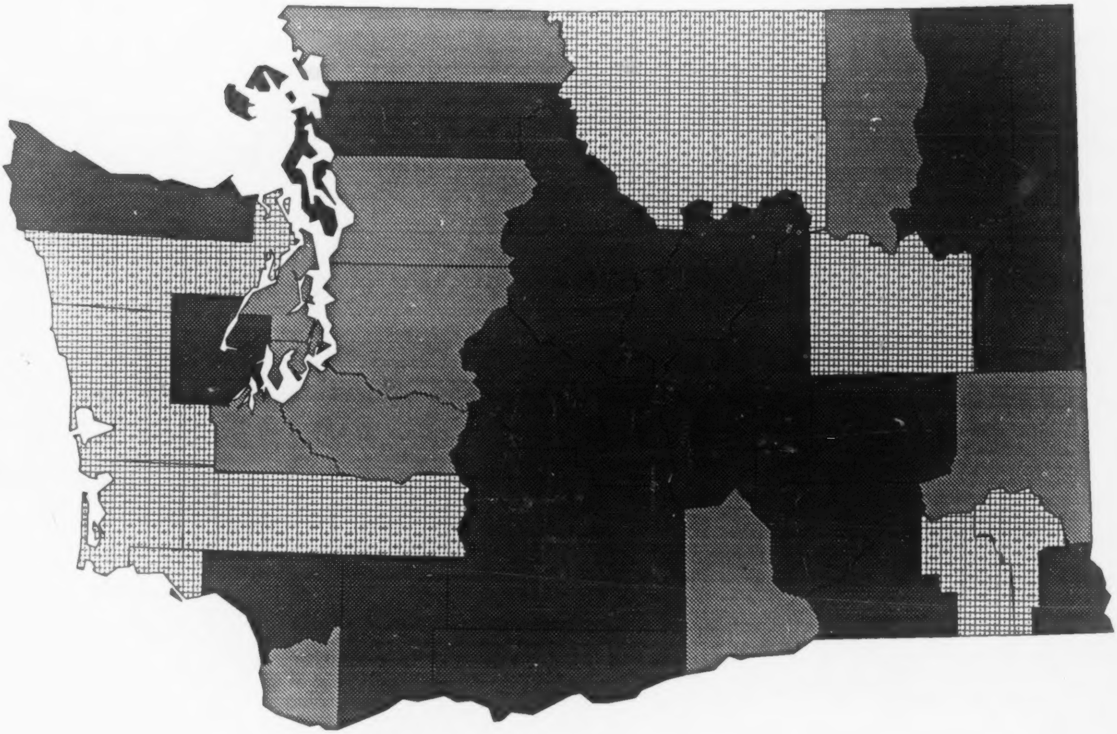
[3] Data Years: Sex-specific suicide rates (1985); age-specific suicide rates(1988) age-specific death rates, total motor vehicle accidents (1989); all others (1987).

Areas of Concern

- High death rates for motor vehicle accidents, falls, and drownings.
- High suicide rates for the 15-24 age group, especially for males
- High Native American cirrhosis death rates.

*Methods and sources of data described in Technical Notes, AppendixB.

Deaths



Washington State, 1989

Deaths/1,000 population

▨ 5 - 7

■ 8 - 10

▦ 11 or More

Infant Mortality - 1989 At A Glance

Washington State 1989

Item	Data	Trend[2]	Comparable US Data3
Number of Infant Deaths	686	+	
Infant Death Rate (deaths per 1,000 live births)			
All Infant Deaths	9.1	-	9.9
Neonatal (0-27 days)	5.0	-	6.4
Postneonatal (28 days - 1 year)	4.1	N	3.5

Leading Cause[1] Death Rates (deaths per 100,000 population)

Item	Data	Trend[2]	Comparable US Data3
Certain Causes of Mortality in Early Infancy	248.4	N	354.3
Sudden Infant Death Syndrome (SIDS)	270.5	N	119.9
Congenital Anomalies	204.2	-	211.2
Birth Injury and Anoxia	95.2	-	110.0

[1] Mortality Table 12 gives International List Numbers (ICD-9 codes) for these causes.

[2] - = decreasing, + = increasing, N = no change.

[3] Rates by cause are provisional, based on a ten percent sample.

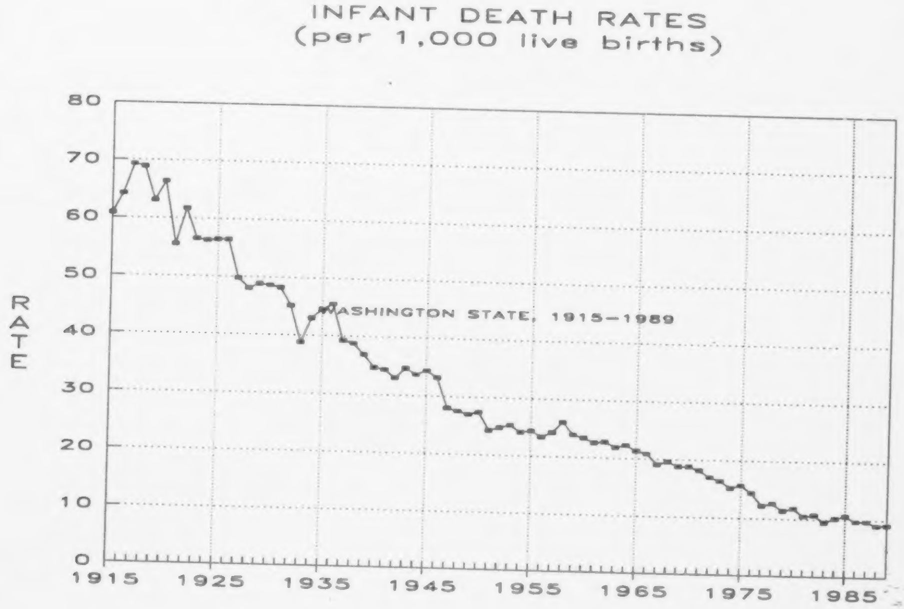


Figure 6

Is Washington State Meeting 1990 Infant Mortality Goals?*

1990 Goals, Washington State and US Infant Death Rates Compared

	Washington State		United States	
	Current[1]	Projected 1990	Current[2]	1990 Goal
All Infant Deaths	9.1	10		9.0
Neonatal Deaths	5.0	5	6.4	6.5
Postneonatal Deaths	4.1	5	3.5	2.5
Racial Groups				
White	9.0	9	8.6	12.0
African American	16.1	16	17.9	12.0
Native American	14.1	13	12.5	12.0

[1] Race-specific mortality rates are for 1988-89; other data are for 1989.

[2] White and African American mortality rates are for 1987; Native American rates are for 1985; other US figures are for 1989.

Areas of Concern

- High postneonatal death rates. This is a major concern. Washington State has the sixth highest postneonatal mortality rate in the nation. Much of the postneonatal mortality is due to Sudden Infant Death Syndrome (SIDS); Washington State's SIDS death rates are considerably higher than US rates (see previous page).
- High African American and Native American infant mortality rates.

Is Washington State Meeting 1990 Fetal Mortality Goals?*

1990 Goals, Washington State and US Fetal Death Rates Compared

	Washington State		United States	
	Current[1]	Projected 1990	Current	1990 Goal
Perinatal Death Rate[2] (deaths per 1,000 live birth)	7.4	8	10.0	5.5

[1] Data are for 1988-89.

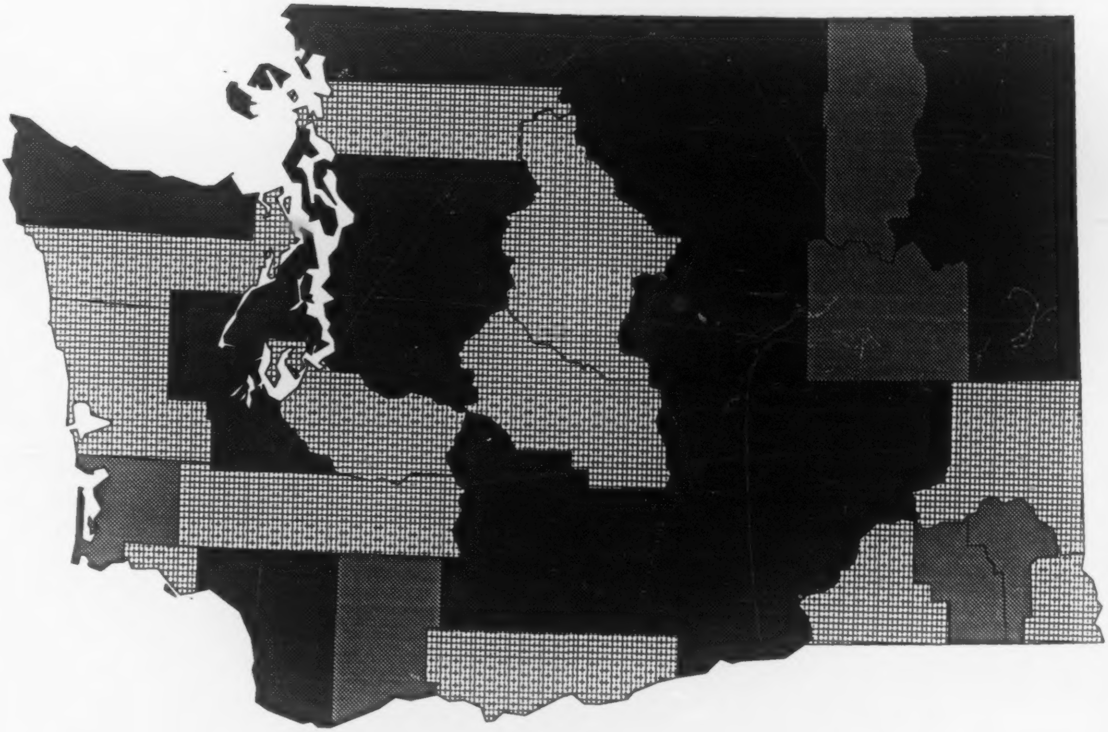
[2] Perinatal deaths include late fetal deaths (28+ weeks) plus early neonatal deaths (less than 7 days). Rates published elsewhere in this report include fetal deaths of 20+ weeks gestation.

Areas of Concern

- Perinatal mortality rates above the goal. The goal appears to be lower than the neonatal goal alone and may thus be unrealistic.

*Methods and sources of data are described in the Technical Notes, Appendix B.

Infant Deaths



Washington State, 1987-89

Infant deaths/1,000 births

▒ 0 - 5

■ 6 - 10

▦ 11 or More

Fetal Mortality - 1989 At A Glance

Washington State 1989

Item	Data	Trend[1]	Comparable US Data2
Number of Fetal Deaths	387	-	
Fetal Death Ratio (deaths per 1,000 live births)	5.1	-	7.3

[1] - = decreasing, + = increasing, N = nochange.

[2] US figure estimated from earlier data.

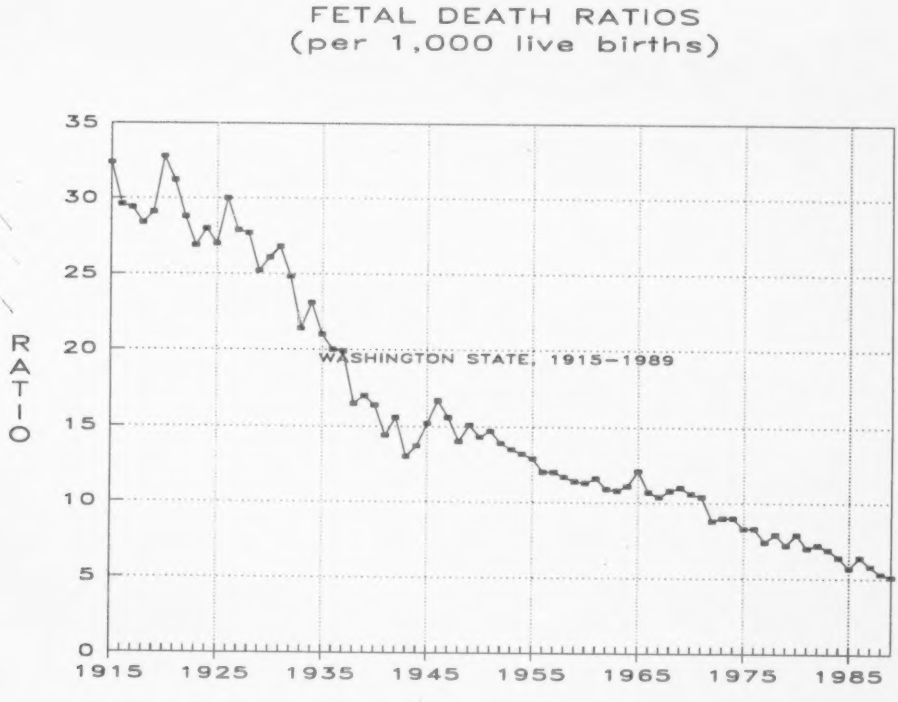
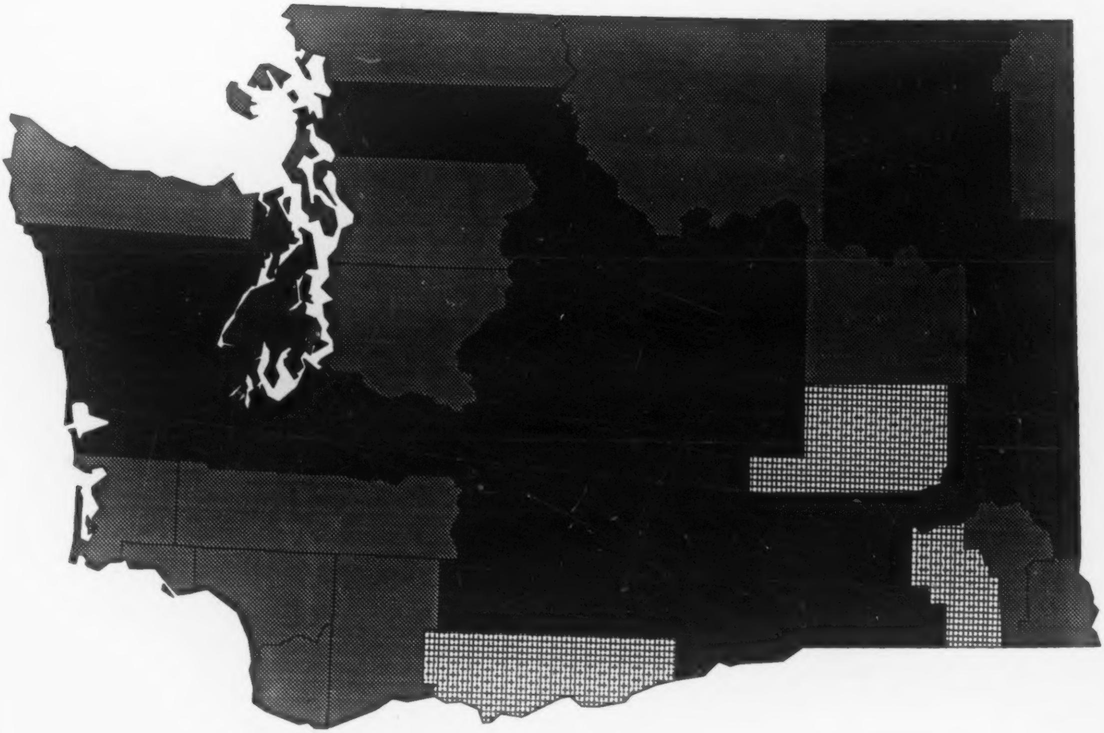


Figure 7

Fetal Deaths



Washington State, 1987-89

Fetal Deaths/1,000 births

▨ 0 - 5
■ 6 - 10
▦ 11 or More

Table 20
Deaths in Washington State by Selected Topics, 1989

A. Residents, Sex and Race

	Total	Male	Female	Unk
Total	36,049	18,598	17,448	3
White	34,111	17,428	16,681	2
African American	859	528	330	1
Native American	428	254	174	
Japanese	94	42	52	
Chinese	70	39	31	
Filipino	108	87	21	
Other Asian	281	157	124	
Other				
Unknown	98	63	35	
Hispanic[1]	458	299	159	

B. Residents, Infant Deaths by Race

Total	686
White	563
African American	63
Native American	33
Japanese	1
Chinese	1
Filipino	2
Other Asian	17
Other	
Unknown	6
Hispanic[1]	49

C. Residents, Age Group by Sex

	Total	Male	Female	Unk
Total	36,049	18,598	17,448	3
Under 1	686	418	267	1
1 - 4	113	64	49	
5 - 14	149	91	58	
15 - 19	273	183	90	
20 - 24	316	218	98	
25 - 34	915	689	226	
35 - 44	1,267	835	432	
45 - 54	1,721	1,063	658	
55 - 64	4,020	2,414	1,606	
65 - 74	7,994	4,698	3,296	
75 - 84	10,197	5,078	5,118	1
85 - 94	6,949	2,494	4,455	
95 and Over	1,440	346	1,094	
Unknown	9	7	1	1

D. Residents, Life Expectancy by Age Group[2]

Age Group	Life Expectancy	Standard Deviation
0-1	76.8	.072
1-5	76.6	.067
5-10	72.7	.066
10-15	67.8	.066
15-20	62.8	.065
20-25	58.1	.063
25-30	53.4	.062
30-35	48.6	.061
35-40	43.9	.060
40-45	39.2	.059
45-50	34.5	.058
50-55	30.0	.057
55-60	25.6	.054
60-65	21.6	.051
65-70	17.9	.047
70-75	14.4	.044
75-80	11.4	.040
80-85	8.8	.034
85+	6.8	–

[1] Hispanic numbers are not included in total sum.

[2] Life expectancy is computed for the age at the beginning of each age interval.

Table 20 (continued)

Deaths in Washington State by Selected Topics, 1989

E. Residents, Leading Causes of Death

Rank	Causes of Death with International List Numbers		Number	Percent[1]
	All Causes		36,049	100.0%
1	Diseases of the Heart	391-392.0,393-398,402,404,410-417,420-429	11,162	31.0
2	Malignant Neoplasms	140-208,230-234	8,704	24.1
3	Cerebrovascular Disease	430-438	2,678	7.4
4	Chronic Obstructive Pulmonary Diseases	490-496	1,882	5.2
5	All Accidents	E800-949	1,671	4.6
6	Influenza and Pneumonia	480-487	1,325	3.7
7	Diabetes Mellitus	250	699	1.9
8	Suicide	E950-959	644	1.8
9	Arteriosclerosis	440	467	1.3
10	Diseases of the Arteries Except Arteriosclerotic	441-444, 446-448	467	1.3
	All Other Causes		6,364	17.7

F. Residence and Occurrence, Month of Death

Month	Residence	Occurrence
Total	36,049	36,205
January	3,214	3,218
February	3,093	3,081
March	3,335	3,321
April	2,917	2,919
May	3,055	3,048
June	2,838	2,872
July	2,915	2,930
August	2,752	2,789
September	2,878	2,910
October	2,981	2,991
November	2,900	2,925
December	3,171	3,201

G. Residents, Marital Status by Sex

	Total	Male	Female	Unk
Total	36,049	18,598	17,448	3
Single	3,803	2,535	1,266	2
Married	15,569	10,719	4,850	
Divorced	3,731	2,120	1,611	
Widowed	12,835	3,130	9,704	1
Unknown	111	94	17	

H. Occurrence, Type of Place

Total	36,205
General Hospitals	15,623
Nursing Home	9,764
Home	8,218
Federal Facility	888
Psychiatric Hospital	38
Dead On Arrival	37
Other and Unknown	1,637

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[1] Detail may not add to 100% due to rounding.

Table 21

Deaths with Rates[1] and Percent[2] by Age Group and Sex by Leading Causes, Washington State Residents 1989

Age Group with Causes	International List Number	Total Number	Total Rate	Total Percent[3]	Male Number	Male Rate	Male Percent[3]	Female Number	Female Rate	Female Percent[3]
All Ages										
All Causes		36,049*	773.5	100.0	18,598	800.2	100.0	17,448	746.8	100.0
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	11,162	239.5	31.0	5,733	246.7	30.8	5,429	232.4	31.1
Malignant Neoplasms	140-208,230-234	8,704	186.8	24.1	4,592	197.6	24.7	4,111	175.9	23.6
Cerebrovascular Disease	430-438	2,678	57.5	7.4	1,020	43.9	5.5	1,658	71.0	9.5
Chronic Obstructive Pulmonary Diseases	490-496	1,882	40.4	5.2	1,001	43.1	5.4	881	37.7	5.0
All Accidents	E800-949	1,671	35.9	4.6	1,121	48.2	6.0	550	23.5	3.2
Influenza and Pneumonia	480-487	1,325	28.4	3.7	598	25.7	3.2	727	31.1	4.2
Diabetes Mellitus	250	699	15.0	1.9	314	13.5	1.7	385	16.5	2.2
Suicide	E950-959	644	13.8	1.8	497	21.4	2.7	147	6.3	.8
Arteriosclerosis	440	467	10.0	1.3	172	7.4	.9	295	12.6	1.7
Diseases of the Arteries except Arteriosclerotic	441-444,446-448	467	10.0	1.3	282	12.1	1.5	185	7.9	1.1
All Other Causes		6,350	136.2	17.6	3,268	140.6	17.6	3,080	131.8	17.7
Under 1										
All Causes		686	946.6	100.0	418	1125.6	100.0	267	755.6	100.0
Sudden Infant Death Syndrome	7980	196	270.5	28.6	119	320.4	28.5	77	217.9	28.8
Certain Causes Mortality In Early Infancy	760-762,764-766 770-779	180	248.4	26.2	113	304.3	27.0	66	186.8	
Congenital Anomalies	740-759	148	204.2	21.6	79	212.7	18.9	69	195.3	25.8
Birth Injury, etc.	763,767-769	69	95.2	10.1	51	137.3	12.2	18	50.9	6.7
All Accidents	E800-949	19	26.2	2.8	14	37.7	3.3	5	14.2	1.9
All Other Causes		74	102.1	10.8	42	113.1	10.0	32	90.6	12.0
1 - 4										
All Causes		113	40.8	100.0	64	45.1	100.0	49	36.3	100.0
All Accidents	E800-949	42	15.2	37.2	28	19.7	43.8	14	10.4	28.6
Congenital Anomalies	740-759	21	7.6	18.6	11	7.8	17.2	10	7.4	20.4
Malignant Neoplasms	140-208,230-234	8	2.9	7.1	4	2.8	6.3	4	3.0	8.2
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	5	1.8	4.4	3	2.1	4.7	2	1.5	4.1
Homicide	E960-969	3	1.1	2.7	1	.7	1.6	2	1.5	4.1
All Other Causes		34	12.3	30.1	17	12.0	26.6	17	12.6	34.7
5 - 14										
All Causes		149	22.6	100.0	91	27.0	100.0	58	18.0	100.0
All Accidents	E800-949	65	9.9	43.6	44	13.0	48.4	21	6.5	36.2
Malignant Neoplasms	140-208,230-234	18	2.7	12.1	9	2.7	9.9	9	2.8	15.5
Homicide	E960-969	9	1.4	6.0	6	1.8	6.6	3	.9	5.2
Congenital Anomalies	740-759	8	1.2	5.4	5	1.5	5.5	3	.9	5.2
Influenza and Pneumonia	480-487	4	.6	2.7	1	.3	1.1	3	.9	5.2
All Other Causes		45	6.8	30.2	26	7.7	28.6	19	5.9	32.8
15 - 19										
All Causes		273	85.3	100.0	183	111.6	100.0	90	57.6	100.0
All Accidents	E800-949	148	46.2	54.2	101	61.6	55.2	47	30.1	52.2
Suicide	E950-959	46	14.4	16.8	31	18.9	16.9	15	9.6	16.7
Homicide	E960-969	22	6.9	8.1	13	7.9	7.1	9	5.8	10.0
Congenital Anomalies	740-759	8	2.5	2.9	5	3.0	2.7	3	1.9	3.3
Malignant Neoplasms	140-208,230-234	8	2.5	2.9	5	3.0	2.7	3	1.9	3.3
All Other Causes		41	12.8	15.0	28	17.1	15.3	13	8.3	14.4
20 - 24										
All Causes		316	93.9	100.0	218	125.9	100.0	98	60.0	100.0
All Accidents	E800-949	150	44.6	47.5	116	67.0	53.2	34	20.8	34.7
Suicide	E950-959	53	15.8	16.8	41	23.7	18.8	12	7.3	12.2
Homicide	E960-969	31	9.2	9.8	19	11.0	8.7	12	7.3	12.2
Undetermined External Injuries	E980-989	14	4.2	4.4	9	5.2	4.1	5	3.1	5.1
Malignant Neoplasms	140-208,230-234	14	4.2	4.4	6	3.5	2.8	8	4.9	8.2
All Other Causes		54	16.1	17.1	27	15.6	12.4	27	16.5	27.6
25 - 34										
All Causes		915	111.9	100.0	689	162.6	100.0	226	57.4	100.0
All Accidents	E800-949	325	39.7	35.5	265	62.5	38.5	60	15.2	26.5
Suicide	E950-959	121	14.8	13.2	96	22.6	13.9	25	6.3	11.1
Human Immunodeficiency Virus	042-044	101	12.4	11.0	97	22.9	14.1	4	1.0	1.8
Malignant Neoplasms	140-208,230-234	83	10.1	9.1	43	10.1	6.2	40	10.2	17.7
Homicide	E960-969	64	7.8	7.0	49	11.6	7.1	15	3.8	6.6
All Other Causes		221	27.0	24.2	139	32.8	20.2	82	20.8	36.3

Table 21 (Continued)

Deaths with Rates[1] and Percent[2] by Age Group and Sex by Leading Causes, Washington State Residents 1989

Age Group with Causes	International List Number	Total			Male			Female		
		Number	Rate	Percent[3]	Number	Rate	Percent[3]	Number	Rate	Percent[3]
35 - 44										
All Causes		1,267	166.0	100.0	835	217.1	100.0	432	114.1	100.0
Malignant Neoplasms	140-208,230-234	280	36.7	22.1	119	30.9	14.3	161	42.5	37.3
All Accidents	E800-949	221	29.0	17.4	155	40.3	18.6	66	17.4	15.3
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	138	18.1	10.9	110	28.6	13.2	28	7.4	6.5
Suicide	E950-959	133	17.4	10.5	100	26.0	12.0	33	8.7	7.6
Human Immunodeficiency Virus	042-044	115	15.1	9.1	114	29.6	13.7	1	.3	.2
All Other Causes		380	49.8	30.0	237	61.6	28.4	143	37.8	33.1
45 - 54										
All Causes		1,721	356.4	100.0	1,063	429.6	100.0	658	279.5	100.0
Malignant Neoplasms	140-208,230-234	643	133.2	37.4	312	126.1	29.4	331	140.6	50.3
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	384	79.5	22.3	299	120.8	28.1	85	36.1	12.9
All Accidents	E800-949	126	26.1	7.3	89	36.0	8.4	37	15.7	5.6
Suicide	E950-959	84	17.4	4.9	64	25.9	6.0	20	8.5	3.0
Cirrhosis of Liver	571	84	17.4	4.9	64	25.9	6.0	20	8.5	3.0
All Other Causes		400	82.8	23.2	235	95.0	22.1	165	70.1	25.1
55 - 64										
All Causes		4,020	1065.8	100.0	2,414	1319.9	100.0	1,606	826.6	100.0
Malignant Neoplasms	140-208,230-234	1,602	424.7	39.9	856	468.1	35.5	746	383.9	46.5
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	1,145	303.6	28.5	815	445.6	33.8	330	169.8	20.5
Chronic Obstructive Pulmonary Diseases	490-496	224	59.4	5.6	116	63.5	4.8	108	55.6	6.7
Cerebrovascular Disease	430-438	160	42.4	4.0	79	43.2	3.3	81	41.7	5.0
Cirrhosis of Liver	571	120	31.8	3.0	70	38.3	2.9	50	25.7	3.1
All Other Causes		769	203.9	19.1	478	261.4	19.8	291	149.8	18.1
65 - 74										
All Causes		7,994	2463.7	100.0	4,698	3173.1	100.0	3,296	1868.3	100.0
Malignant Neoplasms	140-208,230-234	2,738	843.8	34.3	1,558	1052.3	33.2	1,180	668.9	35.8
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	2,468	760.6	30.9	1,588	1072.6	33.8	880	498.8	26.7
Chronic Obstructive Pulmonary Diseases	490-496	629	193.8	7.9	337	227.6	7.2	292	165.5	8.9
Cerebrovascular Disease	430-438	403	124.2	5.0	201	135.8	4.3	202	114.5	6.1
Diabetes Mellitus	250	195	60.1	2.4	99	66.9	2.1	96	54.4	2.9
All Other Causes		1,561	481.1	19.5	915	618.0	19.5	646	366.2	19.6
75 - 84										
All Causes		10,197	5896.4	100.0	5,078	7516.4	100.0	5,118	4856.8	100.0
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	3,589	2075.3	35.2	1,769	2618.5	34.8	1,820	1727.1	35.6
Malignant Neoplasms	140-208,230-234	2,405	1390.7	23.6	1,293	1913.9	25.5	1,111	1054.3	21.7
Cerebrovascular Disease	430-438	918	530.8	9.0	387	572.8	7.6	531	503.9	10.4
Chronic Obstructive Pulmonary Diseases	490-496	711	411.1	7.0	377	558.1	7.4	334	316.9	6.5
Influenza and Pneumonia	480-487	432	249.8	4.2	205	303.4	4.0	227	215.4	4.4
All Other Causes		2,142	1238.6	21.0	1,047	1549.8	20.6	1,095	1039.1	21.4
85 and Over										
All Causes		8,389	14,725.3	100.0	2,840	17,526.5	100.0	5,549	13,611.8	100.0
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	3,355	5889.1	40.0	1,107	6831.6	39.0	2,248	5514.4	40.5
Cerebrovascular Disease	430-438	1,085	1904.5	12.9	301	1857.6	10.6	784	1923.2	14.1
Malignant Neoplasms	140-208,230-234	904	1586.8	10.8	386	2382.1	13.6	518	1270.7	9.3
Influenza and Pneumonia	480-487	629	1104.1	7.5	225	1388.5	7.9	404	991.0	7.3
Arteriosclerosis	440	264	463.4	3.1	69	425.8	2.4	195	478.3	3.5
All Other Causes		2,152	3777.4	25.7	752	4640.8	26.5	1,400	3434.2	25.2
Age Unknown										
All Causes		9		100.0	7		100.0	1		100.0
Undetermined External Injuries	E980-989	2		22.2	2		28.6			
All Accidents	E800-949	1		11.1	1		14.3			
Homicide	E960-969	1		11.1	1		14.3			
Suicide	E950-959	1		11.1	1		14.3			
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	1		11.1				1		100.0
All Other Causes		3		33.3	2		28.6	-		

*Total includes 3 sex unknown.

[1] Rate per 100,000 population in each age - sex group.

[2] Percent of total deaths in each age - sex group.

[3] Detail may not add up to 100 percent due to rounding.

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Table 22

Deaths with Rates[1] by Selected Causes by Sex, Washington State Residents 1989

Causes with International List Number	Total		Male		Female		
	Number	Rate	Number	Rate	Number	Rate	Unknown
Total All Causes	[36,049]	[789.7]	[18,598]	[817.7]	[17,448]	[761.7]	[3]
Infectious and Parasitic Diseases	[681]	[14.9]	[464]	[20.4]	[217]	[9.5]	
Tuberculosis (010-108,137)	22	0.5	13	0.6	9	0.4	
Septicemia (038)	227	5.0	96	4.2	131	5.7	
Human Immunodeficiency Virus (042-044)	279	6.1	270	11.9	9	0.4	
Other (000-139)	153	3.4	85	3.7	68	3.0	
Neoplasms	[8,796]	[192.7]	[4,636]	[203.8]	[4,159]	[181.6]	
Malignant Neoplasms (140-208)	8,704	190.7	4,592	201.9	4,111	179.5	1
Benign and Unspecified Neoplasms (210-229,235-239)	92	2.0	44	1.9	48	2.1	
Endocrine, Nutritional, Metabolic Diseases, and Immunity Disorders	[958]	[21.0]	[416]	[18.3]	[542]	[23.7]	
Diabetes Mellitus (250)	699	15.3	314	13.8	385	16.8	
Nutitional Deficiencies (260-269)	61	1.3	23	1.0	38	1.7	
Other (240-279)	197	4.3	79	3.5	118	5.2	
Diseases of Blood and Blood-Forming Organs	[136]	[3.0]	[69]	[3.0]	[67]	[2.9]	
Anemia (280-285)	55	1.2	23	1.0	32	1.4	
Other (286-289)	81	1.8	46	2.0	35	1.5	
Mental Disorders	[606]	[13.3]	[245]	[10.8]	[361]	[15.8]	
Alcohol-Related (291,303,305)	118	2.6	83	3.6	35	1.5	
Other (290-319)	488	10.7	162	7.1	326	14.2	
Diseases of the Nervous System and Sense Organs	[971]	[21.3]	[459]	[20.2]	[512]	[22.4]	
Parkinson's Diseases (332)	185	4.1	97	4.3	88	3.8	
Amyotrophic Lateral Sclerosis (335.2)	89	1.9	51	2.2	38	1.7	
Other Hereditary and Degenerative Diseases of the Central Nervous System	459	10.1	194	8.5	265	11.6	
Multiple Sclerosis	62	1.4	24	1.1	38	1.7	
Other (320-389)	176	3.9	93	4.1	83	3.6	
Diseases of the Circulatory System	[15,009]	[328.8]	[7,308]	[321.3]	[7,701]	[336.2]	
Diseases of the Heart (391-392.0,393-398,402,404 410-417,420-429)							
Chronic Rheumatic Heart Disease (402)	118	2.6	34	1.5	84	3.7	
Hypertensive Heart Disease (402)	219	4.8	77	3.4	142	6.2	
Hypertensive Heart and Renal Disease (404)	46	1.0	16	0.7	30	1.3	
Acute Ischemic Heart Disease (410-411)	3,343	73.2	1,857	81.6	1,486	64.9	
Chronic Ischemic Heart Disease (412-414)	3,831	83.9	2,027	89.1	1,804	78.8	
Other Heart Disease (415-417,420-429)	3,605	79.0	1,722	75.7	1,883	82.2	
Hypertensive Disease (401-403)	158	3.5	71	3.1	87	3.8	
Cerebrovascular Disease (430-438)	2,678	58.7	1,020	44.8	1,658	72.4	
Arteriosclerosis (440)	467	10.2	172	7.6	295	12.9	
Other (390-459)	544	11.9	312	13.7	232	10.1	
Diseases of the Respiratory System	[3,593]	[78.7]	[1,805]	[79.4]	[1,788]	[78.1]	
Chronic and Unqualified Bronchitis (490-491)	48	1.1	20	0.9	28	1.2	
Emphysema (492)	316	6.9	190	8.4	126	5.5	
Asthma (493)	98	2.1	32	1.4	66	2.9	
Other Chronic Obstructive Pulmonary Diseases (494-496)	1,420	31.1	759	33.4	661	28.9	
Pneumonia (480-486)	1,271	27.8	580	25.5	691	30.2	
Influenza (487)	54	1.2	18	0.8	36	1.6	
Other (460-519)	386	8.5	206	9.1	180	7.9	

[1] Rates per 100,000 estimated population.

Table 22 (Continued)

Deaths with Rates[1] by Selected Causes by Sex, Washington State Residents 1989

Cause with International List Number	Total		Male		Female		Unknown
	Number	Rate	Number	Rate	Number	Rate	Number
Diseases of the Digestive System	[1,332]	[29.2]	[667]	[29.3]	[665]	[29.0]	
Ulcer of Stomach and Duodenum (531-533)	118	2.6	54	2.4	64	2.8	
Hernia and Intestinal Obstruction (550-553,560)	106	2.3	42	1.8	64	2.8	
Cirrhosis of the Liver (571)	453	9.9	283	12.4	170	7.4	
Cholelithiasis, Cholecystitis, and Cholangitis (574-576)	61	1.3	27	1.2	34	1.5	
Other (520-579)	594	13.0	261	11.5	333	14.5	
Diseases of the Genitourinary System	[337]	[7.4]	[154]	[6.8]	[183]	[8.0]	
Nephritis, Nephrotic Syndrome, and Nephrosis (580-589)	159	3.5	89	3.9	70	3.1	
Other (590-629)	178	3.9	65	2.9	113	4.9	
Complications of Pregnancy, Childbirth, and the Puerperium (630-676)	[2]			[2]	[0.1]		
Diseases of the Skin and Subcutaneous Tissue (680-709)	[30]	[0.7]	[9]	[0.4]	[21]	[0.9]	
Diseases of the Musculoskeletal System and Connective Tissue (710-739)	[119]	[2.6]	[29]	[1.3]	[3.9]		
Congenital Anomalies (740-759)	[253]	[5.5]	[133]	[5.8]	[120]	[5.2]	
Birth Injuries, Difficult Labor, and Other Anoxic and Hypoxic Conditions (763,767-769)	[69]	[1.5]	[51]	[2.2]	[18]	[0.8]	
Other Causes of Mortality in Early Infancy (760-762,764-766,770-779)	[181]	[4.0]	[114]	[5.0]	[66]	[2.9]	[1]
Symptoms, Signs, and Other Ill-Defined Conditions	[283]	[6.2]	[157]	[6.9]	[125]	[5.5]	[1]
Sudden Infant Death Syndrome (798.0-798.1)	200	4.4	119	5.2	81	3.5	
Other (780-799)	83	1.8	38	1.7	44	1.9	1
Accidents	[1,671]	[36.6]	[1,121]	[49.3]	[550]	[24.0]	
Motor Vehicle (E810-825,E9290)	848	18.6	574	25.2	274	12.0	
Water Transport (E830-838)	33	0.7	29	1.3	4	0.2	
Air and Space Transport (E840-845)	34	0.7	27	1.2	7	0.3	
Accidental Poisoning (E850-869,E9292)	126	2.8	90	4.0	36	1.6	
Falls (E880-888,E9293)	245	5.4	120	5.3	125	5.5	
Fire (E890-899,E9294)	56	1.2	33	1.5	23	1.0	
Accidental Drowning (E910)	77	1.7	61	2.7	16	0.7	
Other (E800-949)	252	5.5	187	8.2	65	2.8	
Suicide	[644]	[14.1]	[497]	[21.9]	[147]	[6.4]	
Firearms and Explosives (E955)	377	8.3	326	14.3	51	2.2	
Other (E950-959)	267	5.8	171	7.5	96	4.2	
Homicide	[233]	[5.1]	[157]	[6.9]	[76]	[3.3]	
Firearms and Explosives (E965)	130	2.8	92	4.0	38	1.7	
Other (E960-969)	103	2.3	65	2.9	38	1.7	
Legal Intervention (E979-978)	[4]	[0.1]	[4]	[0.2]			
Undetermined External Injuries (E980-989)	[141]	[3.1]	[103]	[4.5]	[38]	[1.7]	
Injury Resulting from Operations of War (E990-999)	[0]		[0]		[0]		[0]

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[1] Rates per 100,000 estimated population.

Table 23

Deaths Due to Malignant Neoplasm by Primary Site with Rates[1] by Sex, Washington State Residents 1989

Cause with International List Number	Total[2]		Male		Female	
	Number	Rate	Number	Rate	Number	Rate
Total All Causes	[8,704]	[190.7]	[4,592]	[100.6]	[4,111]	[90.1]
Lip, Oral Cavity, and Pharynx (140-149)	[162]	[3.5]	[97]	[2.1]	[65]	[1.4]
Digestive Organs and Peritoneum (150-159)	[2,001]	[43.8]	[1,085]	[23.8]	[916]	[20.1]
Esophagus (150)	166	3.6	121	2.7	45	1.0
Stomach (151)	15	0.3	13	0.3	2	
Small Intestine, including Duodenum (152)	16	0.4	8	0.2	8	0.2
Colon (153)	780	17.1	403	8.8	377	8.3
Rectum (154)	129	2.8	69	1.5	60	1.3
Liver and Intrahepatic Ducts (155)	144	3.2	89	1.9	55	1.2
Gallbladder and Extrahepatic Bile Ducts (156)	58	1.3	19	0.4	39	0.9
Pancreas (157)	429	9.4	212	4.6	217	4.8
Retroperitoneum and Peritoneum (158)	7	0.2	3	0.1	4	0.1
Other and Ill-defined Sites (159)	45	1.0	22	0.5	23	0.5
Respiratory and Intrathoracic Organs (160-165)	[2,600]	[57.0]	[1,621]	[35.5]	[978]	[21.4]
Lung (162)	2,512	55.0	1,545	33.8	966	21.2
Other and Ill-defined Sites (160-161,163-165)	88	1.9	76	1.7	12	0.3
Bone, Connective Tissue, Skin and Breast (170-175)	[986]	[21.6]	[133]	[2.9]	[853]	[18.7]
Bone and Articular Cartilage (170)	26	0.6	16	0.4	10	0.2
Connective Tissue and Other Soft Tissue (171)	63	1.4	36	0.8	27	0.6
Skin (172-173)	120	2.6	76	1.7	44	1.0
Breast (174-175)	772	16.9			772	16.9
Genital Organs (179-187)	[1,031]	[22.6]	[578]	[12.7]	[453]	[9.9]
Urinary Organs (188-189)	[390]	[8.5]	[243]	[5.3]	[147]	[3.2]
Brain (191)	[234]	[5.1]	[133]	[2.9]	[101]	[2.2]
Lymphatic and Hematopoietic Tissue (200-208)	[865]	[18.9]	[478]	[10.5]	[387]	[8.5]
Lymphosarcoma (200)	180	3.9	94	2.1	86	1.9
Hodgkins Disease (201)	23	0.5	16	0.4	7	0.2
Multiple Myeloma and Immunoproliferative Tissue (203)	180	3.9	90	2.0	90	2.0
Lymphoid Leukemia (204)	92	2.0	58	1.3	34	0.7
Myeloid Leukemia (205)	187	4.1	105	2.3	82	1.8
Monocytic Leukemia (206)	4	0.1	1		3	0.1
Other and Unspecified Leukemia (207-208)	41	0.9	22	0.5	19	0.4

[1] Rates per 100,000 estimated population.
[2] Group totals are shown in brackets.

Table 24

Deaths by Non-Transport Causes by Place of Accident, Washington State Residents 1989

Cause of Death	Total	Home	Nursing Home	Agriculture	Industry	Prison	Public	Unknown
State Total	734	342	32	28	37	1	161	133
Poisoning by Drugs, Medicaments and Biologicals (E850-E858)	99	67				1	15	16
Poisoning by Other Solid and Liquid Substance, Gases and Vapors (E860-E869)	27	17		1	2		4	3
Misadventures and Abnormal Reactions Due to Surgical and Medical Care (E870-E879)	34						5	29
Falls (E880-E888)	241	121	31		12		48	29
Falls on Stairs and Ladders (E880-E881)	20	16			3		1	
Falls from One Level to Another (E882-E884)	43	13	4		8		18	
Falls on Same Level (E885-E886)	18	9	3				4	2
Other and Unspecified falls (E887-E888)	160	83	24		1		25	27
Fires (E890-E899)	56	49	1				6	
Natural and Environmental Factors (E900-E909)	3				1		2	
Drowning, Excluding Submersion Following Boating Accidents (E910)	77	23		3			46	5
Inhalation and Ingestion of Food or Other Object Causing Suffocation and Obstruction (E911-E912)	45	12					8	25
Mechanical Suffocation (E913)	19	14		1	2		2	
Foreign Body Entering Other Orifice (E914-E915)								
Struck By, Against or Between Objects (E916-E918)	32	7		9	6		9	1
Machinery (E919,E920)	22	4		8	8		2	
Explosion and Explosive Material (E921,E923)	2	1			1			
Firearms (E922)	14	11					3	
Hot Substance, Corrosive Liquid and Steam (E924)	1				1			
Electricity (E925)	8	2		2	3		1	
Other and Unspecified Non-Transport Accidents (E926-E949)	33	5		2	1		4	21

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Table 25

Deaths with Rates[1] by Place of Residence and Occurrence, Washington State 1989

County and City	Residence		Occurrence	
	Total	Rate	Total	Rate
State Total	36,049	7.7	36,205	7.8
Adams	119	8.9	107	8.0
Asotin	179	10.2	149	8.5
Benton	677	6.5	564	5.4
Kennewick	271	7.3	233	6.3
Richland	220	7.3	238	7.9
Chelan	481	9.9	635	13.1
Wenatchee	227	11.4	494	24.8
Clallam	565	10.2	529	9.6
Port Angeles	168	9.6	297	17.0
Clark	1,572	7.1	1,349	6.1
Vancouver	560	12.6	1,100	24.7
Columbia	46	11.2	38	9.3
Cowlitz	658	8.0	680	8.3
Kelso	117	10.4	32	2.8
Longview	303	10.0	586	19.3
Douglas	222	8.7	96	3.8
Ferry	43	7.0	31	5.1
Franklin	272	8.0	275	8.0
Pasco	203	11.6	260	14.8
Garfield	31	13.5	24	10.4
Grant	416	8.0	326	6.3
Moses Lake	108	10.0	149	13.8
Grays Harbor	708	11.1	602	9.5
Aberdeen	229	13.4	361	21.1
Island	423	7.6	322	5.8
Oak Harbor	94	6.4	60	4.1
Jefferson	221	11.5	179	9.3
King	10,543	7.3	11,493	7.9
Auburn	259	8.0	340	10.5
Bellevue	521	6.0	554	6.4
Bothell (part)	75	7.2	65	6.2
Des Moines	174	11.7	221	14.9
Kent	165	4.7	144	4.1
Kirkland	215	5.9	399	10.9
Mercer Island	142	7.0	72	3.5
Redmond	149	4.5	204	6.1
Renton	314	8.2	620	16.1
Seattle	5,232	10.5	8,069	16.2
Kitsap	1,254	6.9	1,161	6.4
Bremerton	390	10.5	721	19.4
Kittitas	192	7.6	188	7.4
Ellensburg	77	6.6	122	10.4
Klickitat	149	8.9	116	6.9
Lewis	667	11.5	598	10.3
Centralia	211	17.8	403	34.0
Lincoln	106	12.0	62	7.0
Mason	357	9.5	251	6.7
Okanogan	346	10.9	299	9.4
Pacific	249	14.1	209	11.8
Pend Oreille	87	9.8	63	7.1
Pierce	4,165	7.4	4,366	7.8
Puyallup	249	11.7	750	35.2
Tacoma	1,803	11.1	2,996	18.5
San Juan	80	8.2	46	4.7
Skagit	731	10.1	773	10.7
Anacortes	139	13.1	197	18.6
Mount Vernon	162	11.0	321	21.7
Skamania	64	7.9	31	3.8
Snohomish	2,798	6.5	2,494	5.8
Edmonds	310	10.4	475	16.0
Everett	683	10.6	1,027	16.0
Lynnwood	207	7.9	167	6.4
Mountlake Terrace	83	4.7	31	1.8
Spokane	3,000	8.4	3,509	9.8
Spokane (city)	1,962	11.5	3,297	19.3
Stevens	267	8.8	203	6.7
Thurston	1,088	7.0	1,137	7.3
Lacey	168	9.9	157	9.3
Olympia	400	12.9	889	28.6
Wahkiakum	37	10.6	18	5.1
Walla Walla	468	9.6	569	11.7
Walla Walla (city)	305	11.9	510	19.9
Whatcom	892	7.3	916	7.5
Bellingham	486	10.3	741	15.7
Whitman	203	5.4	142	3.8
Pullman	55	2.5	56	2.5
Yakima	1,673	8.9	1,655	8.8
Yakima (city)	639	12.6	1,194	23.6

[1] Rates per 1,000 population.

Table 26

Deaths by Sex and Race by Place of Residence, Washington State 1989

County and City	Total	Male	Female	Unk	White	African American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unk	Hispanic[1]
State Total	36,049	18,598	17,448	3	34,111	859	428	94	70	108	281		98	458
Adams	119	62	57		118					1				11
Asotin	179	93	86		177		2							
Benton	677	331	345	1	660	6	5		2	1	2		1	22
Kennewick	271	132	139		266	3			1	1				14
Richland	220	105	115		211	3	3		1		1		1	3
Chelan	481	239	242		474	1	4						2	12
Wenatchee	227	110	117		222	1	3						1	6
Clallam	565	317	248		543	2	14				2		4	3
Port Angeles	168	85	83		161	1	4				2			1
Clark	1,572	858	714		1,542	12	7			1	8		2	15
Vancouver	560	286	274		544	6	5			1	4			6
Columbia	46	22	24		46									
Cowlitz	658	345	313		649	2	2		1		3		1	3
Kelso	117	62	55		116		1							1
Longview	303	146	157		297	2	1				3			2
Douglas	222	121	101		220								2	6
Ferry	43	24	19		33		10							
Franklin	272	150	122		257	11	2				1		1	23
Pasco	203	111	92		189	10	2				1		1	21
Garfield	31	14	17		31									
Grant	416	228	187	1	404	5	3	1					3	34
Moses Lake	108	51	56	1	102	2	2	1					1	14
Grays Harbor	708	382	326		682		16			2	2		6	2
Aberdeen	229	124	105		222		3			1	1		2	
Island	423	227	196		412	5	1			2	3			6
Oak Harbor	94	48	46		86	4	1			2	1			5
Jefferson	221	119	102		216	3	1		1					
King	10,543	5,335	5,208		9,559	527	80	70	56	67	171		13	94
Auburn	259	136	123		251	2	1	1	1		3			1
Bellevue	521	258	263		497	9			1	1	11		2	7
Bothell (part)	75	38	37		74	1								
Des Moines	174	64	110		168	2	1	1			1		1	1
Kent	165	91	74		158	4		1			1		1	
Kirkland	215	110	105		212	1			1		1			3
Mercer Island	142	67	75		132	3	1		1		5			
Redmond	149	78	71		144	1	1	2			1			
Renton	314	158	156		292	10	2	2	1	1	6			1
Seattle	5,232	2,664	2,568		4,481	441	54	54	44	51	101		6	49
Kitsap	1,254	609	645		1,207	18	16	1	1	3	4		4	6
Bremerton	390	165	225		365	13	7	1	1		1		2	3
Kittitas	192	92	100		188	1	1						2	1
Ellensburg	77	30	47		74	1	1						1	1
Klickitat	149	83	66		148		1							
Lewis	667	346	321		660	2	3	1					1	4
Centralia	211	94	117		211									2
Lincoln	106	56	50		104		1						1	
Mason	357	191	166		349	2	3				2		1	2
Okanogan	346	191	155		308		37						1	10
Pacific	249	138	111		245		1				3			
Pend Oreille	87	47	40		86		1							
Pierce	4,165	2,128	2,036	1	3,871	171	25	13	3	21	49		12	27
Puyallup	249	101	148		245	1	1				2			
Tacoma	1,803	839	963	1	1,634	107	14	5	3	11	25		4	11
San Juan	80	39	41		80									2
Skagit	731	387	344		703	1	17			1	3		6	11
Anacortes	139	73	66		137		1				1			
Mount Vernon	162	80	82		157		2						3	4
Skamania	64	33	31		61		2						1	
Snohomish	2,798	1,457	1,341		2,738	19	18	2	1	1	14		5	18
Edmonds	310	154	156		306	1	1			1	1			
Everett	683	339	344		665	8	2		1		4		3	4
Lynnwood	207	97	110		201	2	1				3			2
Mountlake Terrace	83	48	35		81		1				1			3
Spokane	3,000	1,554	1,446		2,917	32	29	2	2	2	6		10	19
Spokane (city)	1,962	987	975		1,896	30	25	1	1	2	5		2	14
Stevens	267	146	121		252	1	13				1			2
Thurston	1,088	543	545		1,065	2	7	3	1	2	4		4	5
Lacey	168	75	93		167						1			
Olympia	400	193	207		390	1	2	1	1	1	2		2	2
Wahkiakum	37	20	17		37									
Walla Walla	468	225	243		462	3			1				2	4
Walla Walla (city)	305	142	163		302	1			1				1	3
Whatcom	892	456	436		860	4	22			1	2		3	9
Bellingham	486	227	259		475	3	5			1	2			3
Whitman	203	107	96		200	2	1							1
Pullman	55	23	32		54	1								1
Yakima	1,673	883	790		1,547	27	83	1	1	3	1		10	108
Yakima (city)	639	315	324		611	16	9		1				2	22

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Table 27

Deaths by Age Group by Place of Residence, Washington State 1989

County and City	Total	Under 1	1-4	5-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and Over	Age Unk
State Total	36,049	686	113	149	273	316	915	1,267	1,721	4,020	7,994	10,197	8,389	9
Adams	119	3	1		1	3	3	2	5	11	33	34	23	
Asotin	179	5	2	3	3		3	1	8	14	33	52	55	
Benton	677	23	2	3	3	2	17	21	39	90	149	198	129	1
Kennewick	271	13	2	1	2	1	9	10	17	42	47	77	50	
Richland	220	5				1	3	4	9	26	59	71	42	
Chelan	481	10	2	2	2	5	12	7	17	36	105	149	133	1
Wenatchee	227	4	2	1	2	3	5	2	10	15	42	66	75	
Clallam	565	3	1		6	10	6	16	11	64	141	164	143	
Port Angeles	168	1			4	3	2	2	3	18	44	41	50	
Clark	1,572	30	4	7	10	22	32	48	100	198	349	429	343	
Vancouver	560	8	2	2	1	8	11	16	26	73	110	164	139	
Columbia	46						1	1	2	1	12	14	15	
Cowlitz	658	6	2	5	11	4	14	20	32	75	150	197	142	
Kelso	117			1	1		2	2	4	13	35	33	26	
Longview	303	5			4	4	6	10	14	37	61	97	65	
Douglas	222	4	1	1	3	3	8	5	9	24	52	60	52	
Ferry	43				2		5		3	5	7	15	6	
Franklin	272	6	3		3	3	11	9	11	28	66	86	46	
Pasco	203	5	3		2	2	8	6	7	16	50	65	39	
Garfield	31								3	2	5	15	6	
Grant	416	7	4	2	4	6	7	10	23	52	114	117	70	
Moses Lake	108	4	1			1	2	5	6	12	27	26	24	
Grays Harbor	708	9	1	3	8	5	6	12	47	84	173	221	139	
Aberdeen	229	5		1	2	2		3	11	28	57	69	51	
Island	423	6	3	1	7	5	10	10	21	49	113	114	84	
Oak Harbor	94	1	1		1	2	4	2	10	12	21	24	16	
Jefferson	221	4		2	2	2	3	6	11	21	45	74	51	
King	10,543	180	21	35	67	94	292	501	516	1,161	2,207	2,906	2,563	
Auburn	259	8	1		5	2	5	7	15	29	56	71	60	
Bellevue	521	14	2		7	6	17	30	28	63	112	127	115	
Bothell (part)	75						3	4	4	2	19	25	18	
Des Moines	174	2			1	3	2		6	6	24	42	88	
Kent	165	4			2	1	5	8	10	18	34	54	29	
Kirkland	215	5			1	3	10	8	8	22	42	64	52	
Mercer Island	142	3		1	1	1	3	1	5	20	25	52	30	
Redmond	149	2			1	4	3	6	8	19	27	42	37	
Renton	314	4	1		2	5	6	13	19	37	69	91	67	
Seattle	5,232	66	7	9	23	34	146	266	223	503	1,064	1,505	1,386	
Kitsap	1,254	25	3	9	13	15	32	37	62	144	267	347	300	
Bremerton	390	11		1	2	6	12	7	16	30	89	116	100	
Kittitas	192	5				1	3	4	13	18	31	67	50	
Ellensburg	77	2					1	2	3	10	10	26	23	
Klickitat	149	4		1	1	1	5	4	8	12	35	50	28	
Lewis	667	14	1	6	6	6	7	15	19	75	137	193	188	
Centralia	211	4		2		1	1	3	9	15	28	73	75	
Lincoln	106						1	1	6	12	20	37	29	
Mason	357	5	1	1	1	3	13	7	16	39	95	108	68	
Okanogan	346	6	2	2	1	1	8	13	18	36	80	103	75	1
Pacific	249	3	1	1	2		3	7	4	23	75	77	53	
Pend Oreille	87	1	1	1			1	1	2	10	26	26	18	
Pierce	4,165	108	19	28	27	37	110	163	205	529	976	1,080	880	3
Puyallup	249			1	2	1	5	6	10	24	53	70	77	
Tacoma	1,803	40	10	10	10	12	46	67	70	189	383	498	468	
San Juan	80	2				2	1	2	2	8	22	22	19	
Skagit	731	13	3	2	7	6	15	16	22	64	167	227	188	1
Anacortes	139	2		1	1	1		2	7	9	25	45	46	
Mount Vernon	162	2	3	1	1	1	3	6	4	9	35	54	43	
Skamania	64		1				1		5	7	20	20	10	
Snohomish	2,798	68	9	13	32	25	101	100	166	330	610	728	616	
Edmonds	310	8	3	4	2	3	6	13	14	32	65	77	83	
Everett	683	15	2	2	8	3	27	19	38	68	142	193	166	
Lynnwood	207	9		1	3	3	7	6	9	22	42	65	40	
Mountlake Terrace	83	2			1	2	6	4	4	12	19	21	12	
Spokane	3,000	51	5	5	9	16	78	94	122	317	671	928	702	2
Spokane (city)	1,962	33	5	4	4	8	49	68	68	209	410	611	493	
Stevens	267	5		2		2	5	11	15	31	74	66	56	
Thurston	1,088	16	3	1	8	7	20	36	40	134	253	317	253	
Lacey	168	1					3	4	3	22	30	49	56	
Olympia	400	5	1		2	2	6	13	11	43	92	123	102	
Wahkiakum	37	1			1			1	2	7	7	11	7	
Walla Walla	468	5	2	3		2	2	12	16	37	101	146	142	
Walla Walla (city)	305	2	2	2		2	2	8	11	20	58	99	99	
Whatcom	892	11	2	3	9	8	25	21	28	78	176	286	245	
Bellingham	486	3	1		3	2	11	7	13	34	93	153	166	
Whitman	203	6		1	1	2	3	6	6	14	38	57	69	
Pullman	55	3		1		1		2	1	2	9	17	19	
Yakima	1,673	41	13	6	23	18	51	47	86	180	359	456	393	
Yakima (city)	639	9	4	1	4	7	13	14	26	63	131	170	197	

Table 28

Deaths by Month of Occurrence by Place of Residence, Washington State 1989

County and City	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
State Total	36,049	3,214	3,093	3,335	2,917	3,055	2,838	2,915	2,752	2,878	2,981	2,900	3,171
Adams	119	6	11	14	14	11	13	8	7	4	10	12	9
Asotin	179	19	14	13	14	16	13	14	15	12	18	11	20
Benton	677	64	48	59	42	61	61	59	58	52	58	52	63
Kennewick	271	25	18	22	18	27	30	20	19	22	30	19	21
Richland	220	17	21	22	12	18	21	19	23	13	19	16	19
Chelan	481	53	32	45	28	34	30	58	48	35	40	34	44
Wenatchee	227	25	16	14	12	14	16	27	26	14	23	18	22
Clallam	565	51	52	58	38	57	46	44	39	39	43	47	51
Port Angeles	168	15	20	15	10	17	11	9	13	11	13	20	14
Clark	1,572	131	155	149	129	136	122	124	115	128	124	124	135
Vancouver	560	49	54	50	44	48	50	45	38	48	45	34	55
Columbia	46	1	2	4	5	2	3	7	4	4	4	4	6
Cowlitz	658	48	68	65	52	61	55	52	44	52	44	62	55
Kelso	117	7	13	13	10	11	8	8	9	7	9	14	8
Longview	303	29	33	30	23	27	27	22	22	20	19	25	26
Douglas	222	24	25	21	15	14	18	20	16	13	11	22	23
Ferry	43	2	2	5	6	5		2	5	2	5	7	2
Franklin	272	19	26	41	16	33	20	22	15	14	18	24	24
Pasco	203	15	22	26	13	22	17	14	14	9	15	18	18
Garfield	31	2	1	3	2	2	4	2	2	7	1	4	1
Grant	416	43	37	44	25	33	34	34	36	29	28	31	42
Moses Lake	108	12	6	16	5	9	8	7	4	7	7	11	16
Grays Harbor	708	57	72	64	52	60	45	55	57	67	60	61	58
Aberdeen	229	21	26	18	12	22	11	15	20	18	20	21	25
Island	423	35	38	44	31	34	40	38	26	32	39	36	30
Oak Harbor	94	8	7	12	4	7	9	9	8	8	11	5	6
Jefferson	221	26	22	20	16	16	17	18	12	21	14	16	23
King	10,543	931	851	972	873	913	813	830	797	874	907	841	941
Auburn	259	17	23	24	19	15	13	26	23	21	30	23	25
Bellevue	521	43	54	48	34	43	40	44	41	36	58	39	41
Bothell (part)	75	9	4	9	5	7	6	3	4	8	9	6	5
Des Moines	174	18	8	26	13	15	15	13	11	17	13	10	15
Kent	165	14	10	11	18	10	13	10	16	11	20	15	17
Kirkland	215	19	15	26	19	18	14	14	18	15	15	17	25
Mercer Island	142	15	15	13	10	13	10	11	6	13	16	11	9
Redmond	149	9	14	13	22	14	15	10	9	15	8	9	11
Renton	314	29	36	35	16	24	27	25	27	22	27	15	31
Seattle	5,232	483	429	468	455	451	401	412	392	431	434	412	464
Kitsap	1,254	109	88	124	117	106	118	96	84	78	93	102	139
Bremerton	390	40	31	35	27	42	38	26	29	21	28	30	43
Kittitas	192	9	12	18	11	19	21	19	15	17	16	18	17
Ellensburg	77	4	9	7	3	5	8	8	3	8	8	6	8
Klickitat	149	15	7	7	14	16	14	18	13	10	18	9	8
Lewis	667	63	61	54	59	53	51	57	55	60	52	44	58
Centralia	211	23	24	14	16	21	14	15	15	25	14	12	18
Lincoln	106	15	8	10	10	6	8	9	8	11	9	8	4
Mason	357	30	36	37	16	28	37	24	28	34	32	24	31
Okanogan	346	32	32	37	25	25	25	28	32	25	33	30	22
Pacific	249	17	26	16	30	27	20	18	21	15	25	14	20
Pend Oreille	87	9	6	7	10	6	3	6	5	5	6	7	17
Pierce	4,165	368	369	390	338	371	328	301	328	364	343	308	357
Puyallup	249	26	28	21	11	16	19	20	20	24	21	19	24
Tacoma	1,803	161	171	173	147	164	135	122	139	158	144	137	152
San Juan	80	10	2	6	8	5	5	8	5	7	9	9	6
Skagit	731	54	87	64	57	73	50	61	61	58	40	65	61
Anacortes	139	12	20	11	11	12	9	14	16	8	4	11	11
Mount Vernon	162	16	18	18	9	10	9	14	10	16	8	18	16
Skamania	64	4	8	5	7	5	8	5	6	4	4	5	3
Snohomish	2,798	268	230	249	258	218	222	222	191	220	230	250	240
Edmonds	310	34	20	25	25	24	20	33	26	23	22	24	34
Everett	683	63	60	60	71	60	61	53	43	54	51	54	53
Lynnwood	207	19	20	12	20	20	14	19	9	16	20	16	22
Mountlake Terrace	83	7	6	7	9	7	8	5	6	9	3	7	9
Spokane	3,000	270	281	283	248	239	238	255	237	241	224	241	243
Spokane (city)	1,962	180	173	190	162	167	147	164	142	157	144	173	163
Stevens	267	21	23	27	25	23	18	12	25	26	25	22	20
Thurston	1,088	99	84	99	76	93	96	93	83	81	95	93	96
Lacey	168	14	17	17	12	12	14	10	14	11	16	18	13
Olympia	400	42	33	35	19	40	37	37	32	32	35	29	29
Wahkiakum	37	3	5	2	1	4	2	5	2	3	4	1	5
Walla Walla	468	51	41	32	31	34	35	46	51	31	44	31	41
Walla Walla (city)	305	27	26	22	19	22	22	29	33	21	33	25	26
Whatcom	892	84	68	76	65	69	61	88	81	62	83	63	92
Bellingham	486	47	39	39	31	43	34	46	41	32	46	32	56
Whitman	203	17	18	16	15	20	15	22	9	19	20	13	19
Pullman	55	6	6	4	4	3	3	6	2	7	4	4	6
Yakima	1,673	154	145	155	138	127	129	135	116	122	152	155	145
Yakima (city)	639	61	66	54	52	56	55	50	40	39	61	56	49

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Table 29

Deaths with Rates[1] by Selected Disease Conditions by Place of Residence, Washington 1989

County and City	Infectious and Parasitic Diseases		Diabetes Mellitus		Alcoholism		Diseases of the Heart		Cerebrovascular Disease	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	681	14.6	699	15.0	77	1.7	11,162	239.5	2,678	57.5
Adams	1	7.5	8	59.7			44	328.4	10	74.6
Asotin	1	5.7	2	11.4			57	323.9	13	73.9
Benton	5	4.8	19	18.3			226	217.1	67	64.4
Kennewick	4	10.8	6	16.3			80	216.9	24	65.1
Richland	1	3.3	3	10.0			79	263.6	22	73.4
Chelan	3	6.2	9	18.5			152	312.8	34	70.0
Wenatchee	1	5.0	5	25.1			68	340.9	14	70.2
Clallam	4	7.2	12	21.7			165	298.9	39	70.7
Port Angeles			3	17.2			49	280.2	9	51.5
Clark	26	11.8	34	15.4	4	1.8	466	211.4	124	56.3
Vancouver	9	20.2	8	18.0			184	413.9	39	87.7
Columbia	1	24.4	1	24.4			18	439.0	4	97.6
Cowlitz	10	12.2	12	14.6	2	2.4	227	276.5	52	63.3
Kelso	2	17.7	4	35.5	1	8.9	34	301.7	6	53.2
Longview	3	9.9	6	19.8			103	339.7	32	105.5
Douglas	2	7.9	4	15.7			61	240.2	17	66.9
Ferry			3	49.2			14	229.5	2	32.8
Franklin	1	2.9	7	20.5	1	2.9	84	245.6	18	52.6
Pasco	1	5.7	6	34.2	1	5.7	63	358.8	14	79.7
Garfield	3	130.4	1	43.5			8	347.8	5	217.4
Grant	6	11.6	10	19.3			133	256.3	29	55.9
Moses Lake	1	9.3	4	37.0			31	286.8	9	83.3
Grays Harbor	7	11.0	10	15.7	1	1.6	229	360.1	56	88.1
Aberdeen	5	29.2	2	11.7			78	455.1	17	99.2
Island	1	1.8	3	5.4	3	5.4	133	240.5	28	50.6
Oak Harbor	1	6.8					28	189.3	9	60.9
Jefferson	3	15.6	5	26.0			70	364.6	27	140.6
King	326	22.5	206	14.2	21	1.5	3,145	217.5	755	52.2
Auburn	1	3.1	5	15.4			74	228.0	30	92.4
Bellevue	20	23.2	12	13.9	1	1.2	144	166.8	27	31.3
Bothell (part)	2	19.2	3	28.8			25	239.7	7	67.1
Des Moines	2	13.5	3	20.2			65	438.6	13	87.7
Kent			2	5.7			52	149.2	14	40.2
Kirkland	6	16.4	3	8.2			62	169.3	18	49.2
Mercer Island	3	14.7	4	19.6			43	211.0	5	24.5
Redmond	4	12.0	3	9.0			45	134.7	14	41.9
Renton	10	26.0	8	20.8	1	2.6	91	236.5	21	54.6
Seattle	209	42.0	101	20.3	13	2.6	1,606	323.0	390	78.4
Kitsap	16	8.8	9	5.0	3	1.7	391	215.4	94	51.8
Bremerton	6	16.2	4	10.8	1	2.7	114	307.4	31	83.6
Kittitas	3	11.8	3	11.8			61	240.2	21	82.7
Ellensburg	2	17.1	1	8.5			28	238.7	9	76.7
Klickitat	1	6.0	3	18.0			47	281.4	11	65.9
Lewis	2	3.4	19	32.8	2	3.4	212	365.5	64	110.3
Centralia			7	59.1			60	506.8	23	194.3
Lincoln	1	11.4	2	22.7			39	443.2	14	159.1
Mason	6	16.0	3	8.0			106	282.7	14	37.3
Okanogan	4	12.6	6	18.9	2	6.3	119	375.4	30	94.6
Pacific	4	22.6	3	16.9			91	514.1	25	141.2
Pend Oreille			1	11.2			25	280.9	5	56.2
Pierce	79	14.1	81	14.4	9	1.6	1,274	227.1	309	55.1
Puyallup	5	23.5	4	18.8			94	441.5	11	51.7
Tacoma	34	21.0	29	17.9	2	1.2	560	345.5	164	101.2
San Juan	2	20.6	2	20.6	1	10.3	22	226.8	15	154.6
Skagit	8	11.0	18	24.9	1	1.4	232	320.4	51	70.4
Anacortes	2	18.9	4	37.7			52	490.6	10	94.3
Mount Vernon			2	13.5			47	317.8	11	74.4
Skamania	1	12.3					23	284.0	3	37.0
Snohomish	37	8.6	51	11.8	4	0.9	831	193.1	194	45.1
Edmonds	1	3.4	5	16.8	1	3.4	102	343.2	24	80.8
Everett	11	17.1	10	15.6			204	317.9	58	90.4
Lynnwood	5	19.0	3	11.4			67	254.9	16	60.9
Mountlake Terrace	3	17.1					21	119.4	6	34.1
Spokane	48	13.4	54	15.1	8	2.2	984	274.9	194	54.2
Spokane (city)	40	23.4	36	21.1	6	3.5	654	383.1	131	76.7
Stevens	4	13.1	4	13.1			79	259.0	30	98.4
Thurston	16	10.3	22	14.2	4	2.6	330	212.8	77	49.6
Lacey	3	17.7	4	23.6			48	283.4	22	129.9
Olympia	5	16.1	9	29.0	2	6.4	121	389.4	24	77.2
Wahkiakum			2	57.1			11	314.3	1	28.6
Walla Walla	3	6.1	9	18.4	1	2.0	144	295.1	28	57.4
Walla Walla (city)	2	7.8	4	15.6	1	3.9	88	342.5	21	81.7
Whatcom	10	8.2	14	11.5	4	3.3	287	234.9	70	57.3
Bellingham	5	10.6	9	19.0	1	2.1	160	338.3	42	88.8
Whitman	4	10.6	5	13.3			65	172.9	23	61.2
Pullman			2	9.0			14	62.9	8	35.9
Yakima	32	17.0	42	22.4	6	3.2	557	296.6	125	66.6
Yakima (city)	11	21.7	12	23.7			220	434.7	60	118.6

[1] Rates per 100,000 estimated population.

Table 30

Deaths with Rates[1] by Selected Disease Conditions by Place of Residence, Washington State 1989

County and City	General Arteriosclerosis		Influenza and Pneumonia		Chronic Obstructive Pulmonary Diseases		Cirrhosis of the Liver		Nephritis Nephrotic Syndrome Nephrosis	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	467	10.0	1,325	28.4	1,882	40.4	453	9.7	159	3.4
Adams	3	22.4	2	14.9	4	29.9	1	7.5		
Asotin	3	17.0	10	56.8	10	56.8	2	11.4	1	5.7
Benton	8	7.7	10	9.6	30	28.8	7	6.7	1	1.0
Kennewick	6	16.3	2	5.4	9	24.4	3	8.1		
Richland			1	3.3	9	30.0	2	6.7	1	3.3
Chelan	5	10.3	15	30.9	23	47.3	3	6.2	2	4.1
Wenatchee	2	10.0	6	30.1	10	50.1	2	10.0	2	10.0
Clallam	7	12.7	17	30.8	34	61.6	9	16.3	2	3.6
Port Angeles	5	28.6	7	40.0	11	62.9	2	11.4		
Clark	11	5.0	63	28.6	94	42.6	17	7.7	7	3.2
Vancouver	5	11.2	27	60.7	37	83.2	9	20.2	2	4.5
Columbia	1	24.4	4	97.6						
Cowlitz	5	6.1	14	17.1	38	46.3	16	19.5	1	1.2
Kelso	1	8.9	3	26.6	5	44.4	4	35.5		
Longview	3	9.9	8	26.4	15	49.5	9	29.7	1	3.3
Douglas	2	7.9	5	19.7	13	51.2	3	11.8	2	7.9
Ferry					2	32.8	2	32.8		
Franklin	2	5.8	10	29.2	16	46.8	3	8.8	1	2.9
Pasco	1	5.7	9	51.3	14	79.7	2	11.4	1	5.7
Garfield	1	43.5	1	43.5	2	87.0				
Grant	4	7.7	10	19.3	22	42.4	6	11.6	4	7.7
Moses Lake	1	9.3	5	46.3	8	74.0			1	9.3
Grays Harbor	3	4.7	34	53.5	48	75.5	15	23.6	5	7.9
Aberdeen			8	46.7	14	81.7	8	46.7	4	23.3
Island	6	10.8	15	27.1	24	43.4	4	7.2	2	3.6
Oak Harbor			1	6.8	3	20.3	1	6.8		
Jefferson	1	5.2	6	31.3	8	41.7	2	10.4	2	10.4
King	106	7.3	449	31.1	488	33.7	135	9.3	54	3.7
Auburn	4	12.3	11	33.9	14	43.1	3	9.2	3	9.2
Bellevue	7	8.1	18	20.8	29	33.6	7	8.1	4	4.6
Bothell (part)			2	19.2			1	9.6	1	9.6
Des Moines	3	20.2	9	60.7	5	33.7	1	6.7	1	6.7
Kent	2	5.7	5	14.3	9	25.8	4	11.5		
Kirkland			16	43.7	7	19.1	1	2.7		
Mercer Island	3	14.7	6	29.4	6	29.4			1	4.9
Redmond	3	9.0	5	15.0	7	21.0	1	3.0		
Renton	4	10.4	15	39.0	17	44.2	6	15.6		
Seattle	46	9.3	223	44.9	228	45.9	71	14.3	29	5.8
Kitsap	11	6.1	41	22.6	67	36.9	13	7.2	3	1.7
Bremerton	3	8.1	14	37.8	21	56.6	3	8.1	1	2.7
Kittitas	1	3.9	5	19.7	9	35.4	1	3.9		
Ellensburg	1	8.5	4	34.1	2	17.1				
Klickitat	2	12.0	3	18.0	5	29.9	1	6.0	1	6.0
Lewis	11	19.0	31	53.4	33	56.9	4	6.9	6	10.3
Centralia	5	42.2	17	143.6	14	118.2				
Lincoln			1	11.4	10	113.6			1	11.4
Mason	1	2.7	20	53.3	28	74.7	2	5.3	1	2.7
Okanogan	3	9.5	13	41.0	20	63.1	5	15.8	1	3.2
Pacific	2	11.3	5	28.2	12	67.8	4	22.6	1	5.6
Pend Oreille	1	11.2	8	89.9	10	112.4			1	11.2
Pierce	116	20.7	122	21.8	238	42.4	63	11.2	14	2.5
Puyallup	16	75.2	9	42.3	10	47.0	4	18.8	1	4.7
Tacoma	59	36.4	60	37.0	113	69.7	30	18.5	5	3.1
San Juan			3	30.9	2	20.6	2	20.6		
Skagit	4	5.5	32	44.2	35	48.3	8	11.0	4	5.5
Anacortes	1	9.4	6	56.6	3	28.3	2	18.9		
Mount Vernon	1	6.8	4	27.0	11	74.4			3	20.3
Skamania	2	24.7			3	37.0			1	12.3
Snohomish	32	7.4	102	23.7	127	29.5	31	7.2	11	2.6
Edmonds	5	16.8	13	43.7	14	47.1	5	16.8	1	3.4
Everett	6	9.4	23	35.8	35	54.5	11	17.1	2	3.1
Lynnwood	1	3.8	7	26.6	9	34.2	2	7.6	1	3.8
Mountlake Terrace			2	11.4	3	17.1	1	5.7	1	5.7
Spokane	52	14.5	104	29.1	182	50.8	35	9.8	15	4.2
Spokane (city)	36	21.1	66	38.7	118	69.1	26	15.2	14	8.2
Stevens	1	3.3	7	23.0	20	65.6	4	13.1	1	3.3
Thurston	9	5.8	36	23.2	56	36.1	15	9.7	6	3.9
Lacey			4	23.6	10	59.0	1	5.9	2	11.8
Olympia	4	12.9	19	61.2	19	61.2	8	25.7	1	3.2
Wahkiakum			2	57.1	2	57.1				
Walla Walla	15	30.7	29	59.4	37	75.8	7	14.3	2	4.1
Walla Walla (city)	13	50.6	19	74.0	25	97.3	4	15.6	1	3.9
Whatcom	10	8.2	34	27.8	40	32.7	5	4.1	2	1.6
Bellingham	5	10.6	16	33.8	28	59.2	2	4.2	2	4.2
Whitman	4	10.6	7	18.6	11	29.3	4	10.6	1	2.7
Pullman	2	9.0	3	13.5	2	9.0	1	4.5		
Yakima	22	11.7	55	29.3	79	42.1	24	12.8	3	1.6
Yakima (city)	12	23.7	34	67.2	31	61.3	9	17.8		

[1] Rates per 100,000 estimated population.

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Table 31

Deaths Due to Malignant Neoplasm by Primary Site with Rates[1] by Place of Residence, Washington State 1989

County and City	Malignant Neoplasms Total All Sites		Lip, Oral, Cavity and Pharynx		Digestive Organs and Peritoneum		Respiratory and Intrathoracic Organs		Genital Organs	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	8,704	186.8	162	3.5	2,001	42.9	2,600	55.8	1,031	22.1
Adams	21	156.7			7	52.2	6	44.8	1	7.5
Asotin	40	227.3			12	68.2	11	62.5	3	17.0
Benton	165	158.5	5	4.8	38	36.5	61	58.6	13	12.5
Kennewick	71	192.5	3	8.1	14	38.0	25	67.8	6	16.3
Richland	63	210.2	2	6.7	16	53.4	23	76.7	7	23.4
Chelan	108	222.2	1	2.1	26	53.5	32	65.8	18	37.0
Wenatchee	53	265.7	1	5.0	12	60.2	16	80.2	6	30.1
Clallam	151	273.6			31	56.2	53	96.0	18	32.6
Port Angeles	43	245.9			5	28.6	22	125.8	4	22.9
Clark	377	171.1	3	1.4	84	38.1	126	57.2	49	22.2
Vancouver	115	258.7	1	2.2	25	56.2	39	87.7	19	42.7
Columbia	4	97.6			1	24.4	1	24.4	1	24.4
Cowlitz	163	196.5	4	4.9	34	41.4	59	71.9	27	32.9
Kelso	34	301.7	2	17.7	5	44.4	11	97.6	6	53.2
Longview	79	260.6	2	6.6	19	62.7	30	98.9	14	46.2
Douglas	50	196.9	1	3.9	6	23.6	17	66.9	8	31.5
Ferry	12	196.7			5	82.0	2	32.8	2	32.8
Franklin	61	178.4	2	5.8	11	32.2	21	61.4	4	11.7
Pasco	40	227.8	1	5.7	8	45.6	16	91.1	2	11.4
Garfield	5	217.4					2	87.0		
Grant	96	185.0	3	5.8	17	32.8	29	55.9	12	23.1
Moses Lake	22	203.5	1	9.3	4	37.0	8	74.0	1	9.3
Grays Harbor	173	272.0	4	6.3	37	58.2	53	83.3	21	33.0
Aberdeen	52	303.4	3	17.5	13	75.8	17	99.2	6	35.0
Island	121	218.8	2	3.6	30	54.2	38	68.7	13	23.5
Oak Harbor	28	189.3	2	13.5	5	33.8	11	74.4	3	20.3
Jefferson	48	250.0			14	72.9	13	67.7	8	41.7
King	2,589	179.0	47	3.3	607	42.0	698	48.3	296	20.5
Auburn	57	175.6			13	40.0	18	55.5	9	27.7
Bellevue	126	145.9	1	1.2	31	35.9	36	41.7	13	15.1
Bothell (part)	16	153.4			3	28.8	6	57.5	1	9.6
Des Moines	31	209.2	1	6.7	10	67.5	5	33.7	3	20.2
Kent	35	100.4	1	2.9	8	22.9	11	31.6	3	8.6
Kirkland	52	142.0	2	5.5	10	27.3	16	43.7	4	10.9
Mercer Island	43	211.0	2	9.8	5	24.5	7	34.3	6	29.4
Redmond	33	98.8			10	29.9	11	32.9	2	6.0
Renton	84	218.3			15	39.0	19	49.4	9	23.4
Seattle	1,196	240.5	21	4.2	304	61.1	321	64.6	146	29.4
Kitsap	307	169.1	6	3.3	65	35.8	96	52.9	32	17.6
Bremerton	96	258.9	1	2.7	20	53.9	27	72.8	15	40.5
Kittitas	41	161.4	1	3.9	6	23.6	8	31.5	7	27.6
Ellensburg	14	119.4	1	8.5			2	17.1	4	34.1
Klickitat	44	263.5	1	6.0	9	53.9	14	83.8	5	29.9
Lewis	155	267.2	1	1.7	38	65.5	47	81.0	20	34.5
Centralia	50	422.3	1	8.4	9	76.0	13	109.8	9	76.0
Lincoln	21	238.6			5	56.8	6	68.2	2	22.7
Mason	97	258.7	1	2.7	22	58.7	27	72.0	15	40.0
Okanogan	80	252.4	2	6.3	23	72.6	22	69.4	9	28.4
Pacific	47	265.5			13	73.4	18	101.7	4	22.6
Pend Oreille	24	269.7			3	33.7	11	123.6	6	67.4
Pierce	954	170.1	21	3.7	227	40.5	306	54.6	119	21.2
Puyallup	47	220.8	1	4.7	11	51.7	15	70.5	10	47.0
Tacoma	363	223.9	10	6.2	85	52.4	126	77.7	40	24.7
San Juan	18	185.6	1	10.3	7	72.2	3	30.9	3	30.9
Skagit	173	239.0	3	4.1	41	56.6	56	77.3	23	31.8
Anacortes	28	264.2			9	84.9	6	56.6	4	37.7
Mount Vernon	41	277.2			8	54.1	16	108.2	2	13.5
Skamania	18	222.2			3	37.0	6	74.1	2	24.7
Snohomish	750	174.3	24	5.6	163	37.9	245	56.9	89	20.7
Edmonds	74	249.0	3	10.1	19	63.9	19	63.9	11	37.0
Everett	180	280.5	7	10.9	36	56.1	54	84.2	19	29.6
Lynnwood	54	205.5	2	7.6	11	41.9	16	60.9	4	15.2
Mountlake Terrace	25	142.1			5	28.4	10	56.9	5	28.4
Spokane	697	194.7	13	3.6	158	44.1	196	54.7	77	21.5
Spokane (city)	437	256.0	10	5.9	93	54.5	124	72.6	49	28.7
Stevens	67	219.7	1	3.3	17	55.7	19	62.3	6	19.7
Thurston	293	188.9	3	1.9	68	43.8	77	49.6	39	25.1
Lacey	38	224.3	1	5.9	9	53.1	7	41.3	7	41.3
Olympia	112	360.5	1	3.2	26	83.7	27	86.9	19	61.2
Wahkiakum	12	342.9			6	171.4	3	85.7		
Walla Walla	91	186.5	1	2.0	20	41.0	23	47.1	10	20.5
Walla Walla (city)	63	245.2	1	3.9	13	50.6	19	74.0	6	23.4
Whatcom	226	184.9	6	4.9	54	44.2	60	49.1	27	22.1
Bellingham	120	253.8	2	4.2	34	71.9	33	69.8	14	29.6
Whitman	41	109.0	1	2.7	10	26.6	9	23.9	3	8.0
Pullman	12	53.9			3	13.5	1	4.5		
Yakima	364	193.8	4	2.1	83	44.2	126	67.1	39	20.8
Yakima (city)	126	249.0	1	2.0	28	55.3	47	92.9	8	15.8

[1] Rates per 100,000 estimated population.

Table 31 (Continued)

Deaths Due to Malignant Neoplasm by Primary Site with Rates[1] by Place of Residence, Washington State 1989

County and City	Urinary Organs		Skin		Breast		Leukemias and Neoplasms of the Lymphatic and Hematopoietic Tissue		Other and Unspecified Primary Sites	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	390	8.4	120	2.6	777	16.7	865	18.6	758	16.3
Adams	1	7.5			1	7.5	1	7.5	4	29.9
Asotin	4	22.7	1	5.7	4	22.7	4	22.7	1	5.7
Benton	1	1.0	3	2.9	19	18.3	14	13.4	11	10.6
Kennewick			3	8.1	9	24.4	6	16.3	5	13.6
Richland	1	3.3			6	20.0	5	16.7	3	10.0
Chelan	4	8.2	2	4.1	10	20.6	4	8.2	11	22.6
Wenatchee	2	10.0	2	10.0	3	15.0	4	20.1	7	35.1
Clallam	8	14.5	2	3.6	13	23.6	18	32.6	8	14.5
Port Angeles					2	11.4	8	45.7	2	11.4
Clark	13	5.9	10	4.5	28	12.7	40	18.1	24	10.9
Vancouver	2	4.5	2	4.5	10	22.5	11	24.7	6	13.5
Columbia					1	24.4				
Cowlitz	7	8.5	2	2.4	8	9.7	13	15.8	9	11.0
Kelso	3	26.6			2	17.7	3	26.6	2	17.7
Longview	1	3.3	1	3.3	5	16.5	3	9.9	4	13.2
Douglas	3	11.8	1	3.9	3	11.8	9	35.4	2	7.9
Ferry	1	16.4					1	16.4	1	16.4
Franklin	4	11.7			6	17.5	5	14.6	8	23.4
Pasco	2	11.4			4	22.8	3	17.1	4	22.8
Garfield							3	130.4		
Grant	3	5.8			8	15.4	13	25.0	11	21.2
Moses Lake					3	27.8	3	27.8	2	18.5
Grays Harbor	11	17.3	1	1.6	18	28.3	16	25.2	12	18.9
Aberdeen	1	5.8			4	23.3	3	17.5	5	29.2
Island	5	9.0	2	3.6	9	16.3	9	16.3	13	23.5
Oak Harbor					3	20.3	2	13.5	2	13.5
Jefferson	1	5.2			4	20.8	2	10.4	6	31.3
King	129	8.9	39	2.7	244	16.9	284	19.6	245	16.9
Auburn	4	12.3	1	3.1	2	6.2	6	18.5	4	12.3
Bellevue	8	9.3	5	5.8	6	6.9	14	16.2	12	13.9
Bothell (part)	1	9.6			4	38.4			1	9.6
Des Moines	1	6.7	1	6.7	4	27.0	3	20.2	3	20.2
Kent	1	2.9			2	5.7	4	11.5	5	14.3
Kirkland	3	8.2	1	2.7	2	5.5	7	19.1	7	19.1
Mercer Island	5	24.5	1	4.9	7	34.3	7	34.3	3	14.7
Redmond			1	3.0	3	9.0	5	15.0	1	3.0
Renton	7	18.2	3	7.8	11	28.6	7	18.2	13	33.8
Seattle	61	12.3	16	3.2	114	22.9	118	23.7	95	19.1
Kitsap	16	8.8	5	2.8	29	16.0	34	18.7	24	13.2
Bremerton	3	8.1	3	8.1	4	10.8	17	45.8	6	16.2
Kittitas	2	7.9	2	7.9	7	27.6	2	7.9	6	23.6
Ellensburg					2	17.1	1	8.5	4	34.1
Klickitat					4	24.0	6	35.9	5	29.9
Lewis	9	15.5	3	5.2	10	17.2	15	25.9	12	20.7
Centralia	1	8.4	2	16.9	5	42.2	5	42.2	5	42.2
Lincoln	2	22.7			3	34.1	3	34.1		
Mason	10	26.7	1	2.7	5	13.3	5	13.3	11	29.3
Okanogan	6	18.9			6	18.9	8	25.2	4	12.6
Pacific					5	28.2	2	11.3	5	28.2
Pend Oreille					2	22.5	1	11.2	1	11.2
Pierce	36	6.4	7	1.2	81	14.4	84	15.0	73	13.0
Puyallup	1	4.7			3	14.1	3	14.1	3	14.1
Tacoma	16	9.9	4	2.5	29	17.9	27	16.7	26	16.0
San Juan					2	20.6	2	20.6		
Skagit	6	8.3	1	1.4	8	11.0	16	22.1	19	26.2
Anacortes	1	9.4			2	18.9	4	37.7	2	18.9
Mount Vernon					2	13.5	5	33.8	8	54.1
Skamania	1	12.3	2	24.7	2	24.7	1	12.3	1	12.3
Snohomish	22	5.1	16	3.7	57	13.2	69	16.0	65	15.1
Edmonds	2	6.7			5	16.8	9	30.3	6	20.2
Everett	2	3.1	5	7.8	16	24.9	21	32.7	20	31.2
Lynnwood	2	7.6	1	3.8	4	15.2	8	30.4	6	22.8
Mountlake Terrace	1	5.7	1	5.7	1	5.7	1	5.7	1	5.7
Spokane	33	9.2	8	2.2	63	17.6	78	21.8	71	19.8
Spokane (city)	22	12.9	4	2.3	38	22.3	54	31.6	43	25.2
Stevens	2	6.6	1	3.3	8	26.2	10	32.8	3	9.8
Thurston	12	7.7	2	1.3	33	21.3	27	17.4	32	20.6
Lacey	2	11.8			3	17.7	5	29.5	4	23.6
Olympia	7	22.5	2	6.4	11	35.4	9	29.0	10	32.2
Wahkiakum							1	28.6	2	57.1
Walla Walla	6	12.3	1	2.0	8	16.4	8	16.4	14	28.7
Walla Walla (city)	6	23.4	1	3.9	3	11.7	3	11.7	11	42.8
Whatcom	12	9.8	2	1.6	28	22.9	23	18.8	14	11.5
Bellingham	4	8.5	1	2.1	9	19.0	15	31.7	8	16.9
Whitman			1	2.7	5	13.3	7	18.6	5	13.3
Pullman					3	13.5	2	9.0	3	13.5
Yakima	20	10.6	5	2.7	35	18.6	27	14.4	25	13.3
Yakima (city)	8	15.8	3	5.9	10	19.8	14	27.7	7	13.8

[1] Rates per 100,000 estimated population.

Table 32

Deaths Due to Human Immunodeficiency Virus with Rates[1] by Place of Residence, Washington State 1989

County and City	Total		Male		Female		Unknown	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	279	6.0	270	5.8	9	0.2		
Adams								
Asotin								
Benton								
Kennewick								
Richland								
Chelan	2	4.1	2	4.1				
Wenatchee	1	5.0	1	5.0				
Clallam	1	1.8	1	1.8				
Port Angeles								
Clark	8	3.6	8	3.6				
Vancouver	5	11.2	5	11.2				
Columbia								
Cowlitz	3	3.7	3	3.7				
Kelso	1	8.9	1	8.9				
Longview	1	3.3	1	3.3				
Douglas								
Ferry								
Franklin								
Pasco								
Garfield								
Grant	2	3.9	2	3.9				
Moses Lake								
Grays Harbor	2	3.1	2	3.1				
Aberdeen	1	5.8	1	5.8				
Island	1	1.8	1	1.8				
Oak Harbor	1	6.8	1	6.8				
Jefferson	2	10.4	1	5.2	1	5.2		
King	184	12.7	179	12.4	5	0.3		
Auburn								
Bellevue	10	11.6	8	9.3	2	2.3		
Bothell (part)								
Des Moines								
Kent								
Kirkland	2	5.5	2	5.5				
Mercer Island	1	4.9	1	4.9				
Redmond	1	3.0	1	3.0				
Renton	3	7.8	3	7.8				
Seattle	146	29.4	144	29.0	2	0.4		
Kitsap	6	3.3	6	3.3				
Bremerton	1	2.7	1	2.7				
Kittitas	1	3.9	1	3.9				
Ellensburg	1	8.5	1	8.5				
Klickitat	1	6.0	1	6.0				
Lewis								
Centralia								
Lincoln								
Mason								
Okanogan								
Pacific								
Pend Oreille								
Pierce	26	4.6	25	4.5	1	0.2		
Puyallup								
Tacoma	12	7.4	12	7.4				
San Juan	1	10.3	1	10.3				
Skagit	1	1.4	1	1.4				
Anacortes								
Mount Vernon								
Skamania								
Snohomish	11	2.6	10	2.3	1	0.2		
Edmonds								
Everett	3	4.7	3	4.7				
Lynnwood	1	3.8	1	3.8				
Mountlake Terrace								
Spokane	16	4.5	16	4.5				
Spokane (city)	13	7.6	13	7.6				
Stevens								
Thurston	2	1.3	1	0.6	1	0.6		
Lacey	1	5.9	1	5.9				
Olympia								
Wahkiakum								
Walla Walla	1	2.0	1	2.0				
Walla Walla (city)	1	3.9	1	3.9				
Whatcom	3	2.5	3	2.5				
Bellingham	2	4.2	2	4.2				
Whitman								
Pullman								
Yakima	5	2.7	5	2.7				
Yakima (city)	1	2.0	1	2.0				

Table 33

Deaths with Rates[1] by External Causes by Place of Residence, Washington State 1989

County and City	All Accidents		Motor Vehicle		Falls		Drownings		Fires		All Other Accidents	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	1,671	35.9	848	18.2	245	5.3	103	2.2	56	1.2	419	9.0
Adams	8	59.7	7	52.2	1	7.5						
Asotin	9	51.1	5	28.4					3	17.0	1	5.7
Benton	30	28.8	16	15.4	3	2.9			2	1.9	9	8.6
Kennewick	16	43.4	7	19.0	3	8.1					6	16.3
Richland	4	13.3	2	6.7					1	3.3	1	3.3
Chelan	32	65.8	14	28.8	6	12.3	4	8.2	1	2.1	7	14.4
Wenatchee	16	80.2	7	35.1	4	20.1	3	15.0	1	5.0	1	5.0
Clallam	32	58.0	20	36.2	2	3.6	5	9.1			5	9.1
Port Angeles	10	57.2	8	45.7	1	5.7					1	5.7
Clark	71	32.2	41	18.6	16	7.3	2	0.9			12	5.4
Vancouver	20	45.0	11	24.7	3	6.7	2	4.5			4	9.0
Columbia	2	48.8	2	48.8								
Cowlitz	33	40.2	22	26.8	3	3.7	2	2.4	2	2.4	4	4.9
Kelso	3	26.6	2	17.7							1	8.9
Longview	13	42.9	10	33.0	1	3.3	2	6.6				
Douglas	14	55.1	9	35.4	2	7.9	1	3.9			2	7.9
Ferry	6	98.4	4	65.6							2	32.8
Franklin	21	61.4	13	38.0	2	5.8	2	5.8			4	11.7
Pasco	15	85.4	9	51.3	1	5.7	2	11.4			3	17.1
Garfield	2	87.0	1	43.5							1	43.5
Grant	24	46.2	20	38.5	1	1.9	2	3.9			1	1.9
Moses Lake	3	27.8	2	18.5							1	9.3
Grays Harbor	25	39.3	14	22.0	5	7.9	2	3.1			4	6.3
Aberdeen	9	52.5	5	29.2	1	5.8	1	5.8			2	11.7
Island	22	39.8	10	18.1	1	1.8	2	3.6	1	1.8	8	14.5
Oak Harbor	5	33.8	2	13.5							3	20.3
Jefferson	10	52.1	5	26.0	1	5.2	1	5.2			3	15.6
King	425	29.4	189	13.1	73	5.0	32	2.2	13	0.9	118	8.2
Auburn	14	43.1	8	24.6	1	3.1	1	3.1			4	12.3
Bellevue	27	31.3	14	16.2	6	6.9	3	3.5			4	4.6
Bothell (part)	6	57.5	2	19.2	1	9.6	2	19.2			1	9.6
Des Moines	6	40.5	2	13.5	4	27.0						
Kent	11	31.6	5	14.3	2	5.7	1	2.9			3	8.6
Kirkland	8	21.8	5	13.7	1	2.7					2	5.5
Mercer Island	3	14.7	2	9.8	1	4.9						
Redmond	8	24.0	4	12.0	1	3.0	1	3.0			2	6.0
Renton	18	46.8	6	15.6	5	13.0			2	5.2	5	13.0
Seattle	177	35.6	52	10.5	32	6.4	18	3.6	9	1.8	66	13.3
Kitsap	64	35.3	29	16.0	6	3.3	8	4.4	5	2.8	16	8.8
Bremerton	17	45.8	6	16.2	2	5.4	4	10.8	2	5.4	3	8.1
Kittitas	12	47.2	2	7.9	2	7.9			1	3.9	7	27.6
Ellensburg	3	25.6			1	8.5			1	8.5	1	8.5
Klickitat	6	35.9	2	12.0			1	6.0			3	18.0
Lewis	34	58.6	16	27.6	4	6.9	1	1.7	5	8.6	8	13.8
Centralia	5	42.2	1	8.4	2	16.9			2	16.9		
Lincoln	2	22.7			1	11.4	1	11.4				
Mason	21	56.0	15	40.0	4	10.7					2	5.3
Okanogan	25	78.9	11	34.7	7	22.1	1	3.2	1	3.2	5	15.8
Pacific	7	39.5	3	16.9					1	5.6	3	16.9
Pend Oreille	4	44.9	3	33.7	1	11.2						
Pierce	159	28.3	87	15.5	25	4.5	7	1.2	4	0.7	36	6.4
Puyallup	4	18.8	2	9.4	1	4.7					1	4.7
Tacoma	59	36.4	32	19.7	12	7.4	3	1.9	1	0.6	11	6.8
San Juan	5	51.5	1	10.3	2	20.6					2	20.6
Skagit	31	42.8	16	22.1	5	6.9	4	5.5	2	2.8	4	5.5
Anacortes	3	28.3	1	9.4	1	9.4					1	9.4
Mount Vernon	7	47.3	2	13.5	2	13.5	2	13.5			1	6.8
Skamania	7	86.4	4	49.4			1	12.3			2	24.7
Snohomish	176	40.9	89	20.7	20	4.6	9	2.1	1	0.2	57	13.2
Edmonds	19	63.9	8	26.9	5	16.8					6	20.2
Everett	35	54.5	14	21.8	4	6.2	2	3.1	1	1.6	14	2[illegible].8
Lynnwood	9	34.2	4	15.2	2	7.6	1	3.8			2	7.6
Mountlake Terrace	4	22.7			1	5.7	1	5.7			2	11.4
Spokane	133	37.2	58	16.2	31	8.7	4	1.1	3	0.8	37	10.3
Spokane (city)	82	48.0	30	17.6	23	13.5	2	1.2	3	1.8	24	14.1
Stevens	12	39.3	6	19.7							6	19.7
Thurston	36	23.2	17	11.0	5	3.2	2	1.3	1	0.6	11	7.1
Lacey	7	41.3	1	5.9	3	17.7			1	5.9	2	11.8
Olympia	11	35.4	6	19.3	1	3.2					4	12.9
Wahkiakum	4	114.3	2	57.1							2	57.1
Walla Walla	19	38.9	6	12.3	3	6.1	1	2.0	1	2.0	8	16.4
Walla Walla (city)	15	58.4	5	19.5	1	3.9	1	3.9	1	3.9	7	27.2
Whatcom	40	32.7	26	21.3	5	4.1	2	1.6	1	0.8	6	4.9
Bellingham	16	33.8	9	19.0	3	6.3	1	2.1			3	6.3
Whitman	11	29.3	8	21.3							3	8.0
Pullman	2	9.0	1	4.5							1	4.5
Yakima	97	51.7	55	29.3	8	4.3	6	3.2	8	4.3	20	10.6
Yakima (city)	19	37.5	8	15.8	3	5.9	2	4.0	1	2.0	5	9.9

[1] Rates per 100,000 estimated population.

Table 34

Deaths with Rates[1] by External Causes by Place of Residence, Washington State 1989

County and City	Suicide		Homicide		Undetermined	
	Number	Rate	Number	Rate	Number	Rate
State Total	644	13.8	233	5.0	141	3.0
Adams	3	22.4				
Asotin	2	11.4	2	11.4		
Benton	3	2.9	2	1.9	1	1.0
Kennewick	2	5.4	2	5.4	1	2.7
Richland						
Chelan	4	8.2	3	6.2		
Wenatchee	1	5.0	1	5.0		
Clallam	10	18.1	1	1.8	1	1.8
Port Angeles	2	11.4				
Clark	35	15.9	12	5.4	10	4.5
Vancouver	9	20.2	4	9.0	6	13.5
Columbia	2	48.8				
Cowlitz	8	9.7	2	2.4	2	2.4
Kelso						
Longview	2	6.6	2	6.8	1	3.3
Douglas	5	19.7	3	11.8	1	3.9
Ferry	1	16.4				
Franklin	6	17.5	4	11.7	1	2.9
Pasco	3	17.1	3	17.1	1	5.7
Garfield						
Grant	6	11.6	4	7.7		
Moses Lake	1	9.3	2	18.5		
Grays Harbor	12	18.9			5	7.9
Aberdeen	4	23.3			2	11.7
Island	7	12.7	2	3.6	2	3.6
Oak Harbor	2	13.5	1	6.8		
Jefferson	4	20.8			1	5.2
King	181	12.5	65	4.5	52	3.6
Auburn	3	9.2	2	6.2	1	3.1
Bellevue	12	13.9			2	2.3
Bothell (part)						
Des Moines	4	27.0				
Kent	5	14.3			1	2.9
Kirkland	5	13.7	1	2.7	1	2.7
Mercer Island	2	9.8	1	4.9		
Redmond	3	9.0			1	3.0
Renton	2	5.2	1	2.6		
Seattle	86	17.3	40	8.0	35	7.0
Kitsap	20	11.0	10	5.5	3	1.7
Bremerton	4	10.8	2	5.4	2	5.4
Kittitas	2	7.9				
Ellensburg						
Klickitat	3	18.0	1	6.0	1	6.0
Lewis	6	10.3	1	1.7		
Centralia			1	8.4		
Lincoln	1	11.4				
Mason	5	13.3			1	2.7
Okanogan	5	15.8	2	6.3		
Pacific	6	33.9	1	5.6	2	11.3
Pend Oreille	2	22.5				
Pierce	95	16.9	50	8.9	32	5.7
Puyallup	4	18.8			2	9.4
Tacoma	30	18.5	22	13.6	18	11.1
San Juan	1	10.3				
Skagit	15	20.7	2	2.8	3	4.1
Anacortes	3	28.3			1	9.4
Mount Vernon	4	27.0	1	6.8	1	6.8
Skamania					1	12.3
Snohomish	67	15.6	20	4.8	7	1.6
Edmonds	4	13.5	2	6.7		
Everett	11	17.1	11	17.1	2	3.1
Lynnwood	5	19.0				
Mountlake Terrace	5	28.4				
Spokane	64	17.9	13	3.6	9	2.5
Spokane (city)	42	24.6	10	5.9	6	3.5
Stevens	5	16.4	2	6.6		
Thurston	19	12.3	4	2.6	3	1.9
Lacey					1	5.9
Olympia	7	22.5			1	3.2
Wahkiakum						
Walla Walla	5	10.2	2	4.1		
Walla Walla (city)	4	15.6	1	3.9		
Whatcom	15	12.3	4	3.3		
Bellingham	7	14.8	2	4.2		
Whitman	1	2.7				
Pullman						
Yakima	18	9.6	21	11.2	3	1.6
Yakima (city)	5	9.9	6	11.9	1	2.0

[1] Rates per 100,000 estimated population.

S00810F-HDE

Table 35

Deaths by Month by Selected Causes, Washington State Occurrences 1989

Cause of Death with International List Number	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total All Causes	36,205	3,218	3,081	3,321	2,919	3,048	2,872	2,930	2,789	2,910	2,991	2,925	3,201
Infectious and Parasitic Diseases (001-139)	698	54	58	66	57	55	55	62	60	50	68	47	66
Pneumonia (480-486)	1,278	141	142	144	108	104	84	91	67	64	82	108	143
Influenza (287)	54	9	16	18	1	2	1			1	3	2	1
Bronchitis (490-491)	49	5	4	5	4	5	2	3	2	7	2	3	7
Emphysema (492)	317	41	26	28	24	25	21	25	18	26	20	34	29
Asthma (493)	100	8	10	9	9	10	4	7	3	11	11	12	6
Other Chronic Obstructive Pulmonary Diseases (494-496)	1,410	128	154	156	126	122	97	118	97	92	90	104	126
Congenital Anomalies (740-759)	252	17	26	20	18	23	29	14	13	17	24	32	19
Certain Causes of Mortality in Early Infancy (760-799)	509	52	44	52	34	38	32	30	38	36	53	53	47
Motorcycle Accidents (E810-E825)	71	3	1	3	3	12	6	11	11	14	4	3	
Other Motor Vehicle Accidents (E810-E825)	745	43	34	43	58	68	69	67	67	73	75	73	75
Drownings Resulting from Boating Accident (E830-E832)	16			2	2		2	2	5	2		1	
Other Drownings (E910)	69	4	5	6	4	2	12	11	7	9	2	3	4
Falls (E880-E888)	247	19	17	27	14	25	25	24	20	20	19	18	19
Fire (E890-E899)	55	4	7	6	6	1	3	6	4	8	3	3	4
Other Accidents (E800-E928)	418	21	31	36	41	26	39	44	45	36	32	29	38
Suicide (E950-E959)	647	67	44	59	62	53	50	52	56	57	39	61	47
Homicide (E960-E969)	231	21	15	24	13	21	19	18	23	21	10	28	18

Table 36

Deaths Due to Human Immunodeficiency Virus with Rates[1] by Place of Occurrence, Washington State 1989

County and City	Total		Male		Female		Unknown	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	274	5.9	264	5.7	10	0.2		
Adams								
Asotin								
Benton								
Kennewick								
Richland								
Chelan	2	4.1	2	4.1				
Wenatchee	2	10.0	2	10.0				
Clallam	1	1.8	1	1.8				
Port Angeles	1	5.7	1	5.7				
Clark	4	1.8	4	1.8				
Vancouver	4	9.0	4	9.0				
Columbia								
Cowlitz	1	1.2	1	1.2				
Kelso								
Longview	1	3.3	1	3.3				
Douglas								
Ferry								
Franklin								
Pasco								
Garfield								
Grant	1	1.9	1	1.9				
Moses Lake	1	9.3	1	9.3				
Grays Harbor	2	3.1	2	3.1				
Aberdeen	1	5.8	1	5.8				
Island	1	1.8	1	1.8				
Oak Harbor								
Jefferson	2	10.4	1	5.2	1	5.2		
King	193	13.3	186	12.9	7	0.5		
Auburn								
Bellevue	6	6.9	5	5.8	1	1.2		
Bothell (part)								
Des Moines								
Kent								
Kirkland	3	8.2	2	5.5	1	2.7		
Mercer Island								
Redmond	1	3.0	1	3.0				
Renton	2	5.2	2	5.2				
Seattle	178	35.8	173	34.8	5	1.0		
Kitsap	4	2.2	4	2.2				
Bremerton	2	5.4	2	5.4				
Kittitas	1	3.9	1	3.9				
Ellensburg	1	8.5	1	8.5				
Klickitat								
Lewis								
Centralia								
Lincoln								
Mason								
Okanogan								
Pacific								
Pend Oreille								
Pierce	26	4.6	25	4.5	1	0.2		
Puyallup	1	4.7	1	4.7				
Tacoma	18	11.1	18	11.1				
San Juan	1	10.3	1	10.3				
Skagit								
Anacortes								
Mount Vernon								
Skamania								
Snohomish	6	1.4	6	1.4				
Edmonds	1	3.4	1	3.4				
Everett								
Lynnwood	1	3.8	1	3.8				
Mountlake Terrace								
Spokane	20	5.6	20	5.6				
Spokane (city)	20	11.7	20	11.7				
Stevens								
Thurston	2	1.3	1	0.6	1	0.6		
Lacey	1	5.9	1	5.9				
Olympia	1	3.2			1	3.2		
Wahkiakum								
Walla Walla	1	2.0	1	2.0				
Walla Walla (city)	1	3.9	1	3.9				
Whatcom	2	1.6	2	1.6				
Bellingham	2	4.2	2	4.2				
Whitman								
Pullman								
Yakima	4	2.1	4	2.1				
Yakima (city)	4	7.9	4	7.9				

[1] Rates per 100,000 estimated population.

Table 37

Deaths by External Causes with Rates[1] by Place of Occurrence, Washington State 1989

County and City	All Accidents		Motor Vehicle		Falls		Drownings		Fires		All Other Accidents	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	1,642	35.2	822	17.6	252	5.4	83	1.8	55	1.2	430	9.2
Adams	11	82.1	10	74.6			1	7.5				
Asotin	2	11.4	1	5.7							1	5.7
Benton	16	15.4	10	9.6	2	1.9			1	1.0	3	2.9
Kennewick	6	16.3	2	5.4	1	2.7					3	8.1
Richland	4	13.3	4	13.3								
Chelan	43	88.5	22	45.3	9	18.5	4	8.2	1	2.1	7	14.4
Wenatchee	25	125.3	10	50.1	6	30.1	4	20.1	1	5.0	4	20.1
Clallam	23	41.7	14	25.4	2	3.6	2	3.6			5	9.1
Port Angeles	13	74.3	7	40.0	1	5.7					5	28.6
Clark	55	25.0	24	10.9	15	6.8	1	0.5			15	6.8
Vancouver	42	94.5	16	36.0	13	29.2	1	2.2			12	27.0
Columbia	4	97.6	3	73.2							1	24.4
Cowlitz	30	36.5	19	23.1	1	1.2			2	2.4	8	9.7
Kelso	1	8.9	1	8.9								
Longview	17	56.1	12	39.6	1	3.3					4	13.2
Douglas	8	31.5	4	15.7	1	3.9					3	11.8
Ferry	5	82.0	3	49.2							2	32.8
Franklin	24	70.2	11	32.2	2	5.8	1	2.9			10	29.2
Pasco	19	108.2	7	39.9	2	11.4	1	5.7			9	51.3
Garfield	1	43.5									1	43.5
Grant	26	50.1	20	38.5	1	1.9	3	5.8			2	3.9
Moses Lake	5	46.3	3	27.8	1	9.3					1	9.3
Grays Harbor	18	28.3	11	17.3	2	3.1	3	4.7			2	3.1
Aberdeen	9	52.5	5	29.2	2	11.7	1	5.8			1	5.8
Island	14	25.3	7	12.7	1	1.8	1	1.8	1	1.8	4	7.2
Oak Harbor	6	40.6	3	20.3							3	20.3
Jefferson	17	88.5	9	46.9	1	5.2	5	26.0			2	10.4
King	456	31.5	206	14.2	80	5.5	15	1.0	23	1.6	132	9.1
Auburn	12	37.0	9	27.7			1	3.1			2	6.2
Bellevue	19	22.0	8	9.3	6	6.9	1	1.2			4	4.6
Bothell (part)	1	9.6	1	9.6								
Des Moines	4	27.0	1	6.7	2	13.5					1	6.7
Kent	6	17.2	5	14.3							1	2.9
Kirkland	18	49.2	6	16.4	4	10.9					8	21.8
Mercer Island	1	4.9			1	4.9						
Redmond	5	15.0	4	12.0					1	3.0		
Renton	12	31.2	2	5.2	4	10.4			3	7.8	3	7.8
Seattle	341	68.6	147	29.6	57	11.5	13	2.6	19	3.8	105	21.1
Kitsap	36	19.8	16	8.8	3	1.7	5	2.8	3	1.7	9	5.0
Bremerton	12	32.4	2	5.4	2	5.4	3	8.1	3	8.1	2	5.4
Kittitas	24	94.5	14	55.1	2	7.9	1	3.9	1	3.9	6	23.6
Ellensburg	9	76.7	2	17.1	1	8.5	1	8.5	1	8.5	4	34.1
Klickitat	7	41.9	3	18.0	1	6.0	2	12.0			1	6.0
Lewis	40	69.0	22	37.9	2	3.4	5	8.6	3	5.2	8	13.8
Centralia	13	109.8	9	76.0	2	16.9	2	16.9				
Lincoln	2	22.7	1	11.4			1	11.4				
Mason	17	45.3	13	34.7	2	5.3					2	5.3
Okanogan	25	78.9	13	41.0	6	18.9	1	3.2	1	3.2	4	12.6
Pacific	9	50.8	4	22.6	1	5.6	3	16.9			1	5.6
Pend Oreille	7	78.7	6	67.4	1	11.2						
Pierce	150	26.7	71	12.7	29	5.2	5	0.9	5	0.9	40	7.1
Puyallup	24	112.7	14	65.8	6	28.2					4	18.8
Tacoma	91	56.1	36	22.2	19	11.7	5	3.1	3	1.9	28	17.3
San Juan	4	41.2	1	10.3	2	20.6					1	10.3
Skagit	24	33.1	13	18.0	4	5.5	3	4.1	2	2.8	2	2.8
Anacortes	3	28.3	2	18.9	1	9.4						
Mount Vernon	9	60.9	5	33.8	2	13.5	2	13.5				
Skamania	7	86.4	3	37.0	1	12.3	1	12.3			2	24.7
Snohomish	138	32.1	57	13.2	19	4.4	8	1.9	1	0.2	53	12.3
Edmonds	16	53.8	2	6.7	9	30.3					5	16.8
Everett	49	76.4	18	28.1	6	9.4			1	1.6	24	37.4
Lynnwood	10	38.1	6	22.8	1	3.8					3	11.4
Mountlake Terrace	3	17.1			1	5.7	1	5.7			1	5.7
Spokane	140	39.1	65	18.2	33	9.2	4	1.1	3	0.8	35	9.8
Spokane (city)	129	75.6	59	34.6	32	18.7	3	1.8	3	1.8	32	18.7
Stevens	9	29.5	5	16.4			1	3.3			3	9.8
Thurston	50	32.2	21	13.5	9	5.8	1	0.6	1	0.6	18	11.6
Lacey	3	17.7			1	5.9			1	5.9	1	5.9
Olympia	39	125.5	16	51.5	8	25.7	1	3.2			14	45.1
Wahkiakum	3	85.7	1	28.6	1	28.6					1	28.6
Walla Walla	34	69.7	19	38.9	4	8.2					11	22.5
Walla Walla (city)	32	124.6	19	74.0	3	11.7					10	38.9
Whatcom	56	45.8	31	25.4	8	6.5	3	2.5	1	0.8	13	10.6
Bellingham	43	90.9	26	55.0	7	14.8	2	4.2			8	16.9
Whitman	14	37.2	12	31.9							2	5.3
Pullman	7	31.4	6	26.9							1	4.5
Yakima	93	49.5	57	30.4	7	3.7	3	1.6	6	3.2	20	10.6
Yakima (city)	52	102.7	29	57.3	6	11.9	1	2.0	2	4.0	14	27.7

[1] Rates per 100,000 estimated population.

Table 38

Deaths by External Causes with Rates[1] by Place of Occurrence, Washington State 1989

County and City	Suicide		Homicide		Undetermined	
	Number	Rate	Number	Rate	Number	Rate
State Total	647	13.9	231	5.0	141	3.0
Adams	3	22.4				
Asotin	2	11.4	1	5.7		
Benton	4	3.8	1	1.0	1	1.0
Kennewick	3	8.1	1	2.7	1	2.7
Richland						
Chelan	2	4.1	3	6.2		
Wenatchee	1	5.0	2	10.0		
Clallam	6	10.9	1	1.8	3	5.4
Port Angeles	4	22.9	1	5.7		
Clark	31	14.1	12	5.4	8	3.6
Vancouver	26	58.5	9	20.2	7	15.7
Columbia	2	48.8				
Cowlitz	10	12.2	2	2.4	2	2.4
Kelso						
Longview	5	16.5	2	6.6	1	3.3
Douglas	4	15.7	2	7.9		
Ferry	1	16.4	1	16.4		
Franklin	5	14.6	5	14.6		
Pasco	5	28.5	4	22.8		
Garfield						
Grant	4	7.7	4	7.7		
Moses Lake	2	18.5	2	18.5		
Grays Harbor	13	20.4	1	1.6	8	12.6
Aberdeen	6	35.0			3	17.5
Island	5	9.0	1	1.8	2	3.6
Oak Harbor	2	13.5	1	6.8	1	6.8
Jefferson	4	20.8				
King	205	14.2	66	4.6	64	4.4
Auburn	3	9.2			3	9.2
Bellevue	9	10.4	1	1.2	1	1.2
Bothell (part)	5	47.9			1	9.6
Des Moines	3	20.2	1	6.7		
Kent	7	20.1	1	2.9	2	5.7
Kirkland	9	24.6			1	2.7
Mercer Island	2	9.8				
Redmond	3	9.0			1	3.0
Renton	5	13.0	2	5.2	3	7.8
Seattle	128	25.7	55	11.1	49	9.9
Kitsap	19	10.5	7	3.9		
Bremerton	8	21.6	1	2.7		
Kittitas	2	7.9				
Ellensburg	1	8.5				
Klickitat	3	18.0	1	6.0		
Lewis	5	8.6	1	1.7		
Centralia						
Lincoln	1	11.4				
Mason	4	10.7	2	5.3	1	2.7
Okanogan	4	12.6	1	3.2		
Pacific	6	33.9			1	5.6
Pend Oreille	2	22.5	1	11.2		
Pierce	89	15.9	51	9.1	33	5.9
Puyallup	12	56.4	2	9.4	3	14.1
Tacoma	49	30.2	26	16.0	23	14.2
San Juan	1	10.3			1	10.3
Skagit	15	20.7			2	2.8
Anacortes	4	37.7				
Mount Vernon	6	40.6			1	6.8
Skamania					1	12.3
Snohomish	63	14.6	19	4.4	2	0.5
Edmonds	5	16.8	1	3.4		
Everett	25	39.0	10	15.6	1	1.6
Lynnwood	5	19.0				
Mountlake Terrace	4	22.7				
Spokane	66	18.4	13	3.6	10	2.8
Spokane (city)	60	35.1	11	6.4	10	5.9
Stevens	5	16.4	2	6.6		
Thurston	21	13.5	5	3.2		
Lacey	2	11.8				
Olympia	14	45.1	4	12.9		
Wahkiakum						
Walla Walla	6	12.3	2	4.1		
Walla Walla (city)	3	11.7	2	7.8		
Whatcom	14	11.5	5	4.1		
Bellingham	12	25.4	3	6.3		
Whitman	1	2.7				
Pullman						
Yakima	19	10.1	21	11.2	2	1.1
Yakima (city)	8	15.8	10	19.8	1	2.0

[1] Rates per 100,000 estimated population.

S02420C-HDE

Table 39

Deaths by Type of Place by Place of Occurrence, Washington State 1989

County and City	Total	General Hospital	Nursing Home	Home	Federal Facility	Psychiatric Hospital	State Facility	Dead on Arrival	Other and Not Specified
State Total	36,205	15,623	9,764	8,218	888	38		37	1,637
Adams	107	37	35	22					13
Asotin	149	41	63	43					2
Benton	564	271	109	163				1	20
Kennewick	233	95	53	76				1	6
Richland	238	144	32	55					7
Chelan	635	336	183	81				1	34
Wenatchee	494	311	118	51					14
Clallam	529	181	163	153				4	28
Port Angeles	297	155	67	62				3	10
Clark	1,349	459	419	402	7				62
Vancouver	1,100	458	292	301	7				42
Columbia	38	8	17	6					7
Cowlitz	680	259	204	114					103
Kelso	32		2	27					3
Longview	586	257	183	62					84
Douglas	96		49	35					12
Ferry	31	13		12					6
Franklin	275	107	79	69					20
Pasco	260	106	79	60					15
Garfield	24	11	11	2					
Grant	326	147	98	56					25
Moses Lake	149	67	65	15					2
Grays Harbor	602	224	228	125				2	23
Aberdeen	361	194	112	47				2	6
Island	322	81	96	127	1			2	15
Oak Harbor	60		12	42					6
Jefferson	179	53	60	48					18
King	11,493	5,477	2,716	2,556	282			6	456
Auburn	340	132	110	79					19
Bellevue	554	308	98	134					14
Bothell (part)	65		21	36					8
Des Moines	221		188	28					5
Kent	144	2	5	120				1	16
Kirkland	399	196	109	75					19
Mercer Island	72		32	33					7
Redmond	204	107	43	39					15
Renton	620	331	133	142					14
Seattle	8,069	4,226	1,672	1,622	282			4	263
Kitsap	1,161	431	337	293	37			3	60
Bremerton	721	429	157	118					17
Kittitas	188	46	72	42					28
Ellensburg	122	46	43	24					9
Klickitat	116	59	18	35					4
Lewis	598	265	171	133					29
Centralia	403	226	135	39					3
Lincoln	62	29	17	12					4
Mason	251	77	82	75				2	15
Okanogan	299	115	93	69					22
Pacific	209	75	73	47					14
Pend Oreille	63	18	13	25				1	6
Pierce	4,366	1,852	1,117	910	349	26			112
Puyallup	750	394	231	117					8
Tacoma	2,996	1,453	818	550	109	8			58
San Juan	46		25	15					6
Skagit	773	317	255	160				7	34
Anacortes	197	54	96	40				2	5
Mount Vernon	321	134	118	56				1	12
Skamania	31			20					11
Snohomish	2,494	935	695	752				2	110
Edmonds	475	288	91	91					5
Everett	1,027	556	220	228				1	22
Lynnwood	167	1	87	69					10
Mountlake Terrace	31			30					1
Spokane	3,509	1,790	873	577	145	12		1	111
Spokane (city)	3,297	1,775	777	504	145				96
Stevens	203	72	53	62				1	15
Thurston	1,137	504	293	294				2	44
Lacey	157		109	45					3
Olympia	889	504	179	180				2	24
Wahkiakum	18		7	9					2
Walla Walla	569	229	179	79	67				15
Walla Walla (city)	510	228	151	55	67				9
Whatcom	916	271	347	232				2	64
Bellingham	741	271	286	146				2	36
Whitman	142	32	58	39					13
Pullman	56	17	19	15					5
Yakima	1,655	801	456	324					74
Yakima (city)	1,194	661	327	183					23

Table 40

Infant Mortality by Age and Sex by Cause, Washington State Residents 1989

Cause and International List Number	Total			Under 1 Day		Under 7 Days		7 Days - Under 28 Days		28 Days - Under 3 Months		3 Months - Under 6 Months		6 Months - Under 9 Months		9 Months - Under 12 Months	
	M	F	Unk	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total All Causes	418	267	1	125	79	64	32	51	25	81	54	70	51	14	14	13	12
All Infective and Parasitic Diseases (000-139)	7	5								3	2	2	2		1	2	
Malignant Neoplasms (140-208)	1							1									
Meningitis (320, 322)	1											1					
Diseases of the Circulatory System (390-459)	7	8		2	2			1		2	3	1	1	1	1		1
Pneumonia (480-487)	3	1								1	1			1		1	
Other Diseases of the Respiratory System (510-519)	1	2										1	1		1		
Hernia and Intestinal Obstruction (550-553, 560)	2									2							
Congenital Anomalies (740-759)	79	69		23	27	27	11	12	9	9	8	6	7	1	3	1	4
Anencephalus (740)	3			3													
Spina Bifida and Meningocele (741)	1			1													
Other Anomalies of the Central Nervous System (742)	4	3		1	3	1		1		1							
Anomalies of the Heart (745, 746)	24	20		2	3	13	6	4	4	3	4	2	2				1
Other Anomalies of the Circulatory System (747)	4	2			1	2		1		1			1				
Anomalies of the Respiratory System (748)	19	16		5	9	4		2		2	2	4	1	1	2	1	2
Anomalies of the Digestive System (749-751)		3			1						1		1				
Anomalies of the Genitourinary System (752-753)	7	3		4	3	3											
Anomalies of the Musculoskeletal System (754-756)	6	4		5	2		1	1	1								
Chromosomal Anomalies (758)	6	10			4	2	2	3	3	1					1		
Other Congenital Anomalies	5	8		2	1	2	2		1	1	1		2				1
Certain Diseases of Early Infancy (760-779)	164	84	1	99	49	34	18	23	13	2	2	6	2				
Maternal Diseases Affecting Child (760)	1					1											
Complications of Pregnancy Affecting Child (761-762)	30	18		26	18	3						1					
Birth Injuries (763, 767-769)	51	18		21	4	13	8	14	6	1		2					
Other Disease Peculiar to Early Infancy	82	48	1	52	27	17	10	9	7	1	2	3	2				
Sudden Infant Death Syndrome (7980)	119	77					1	8	1	54	38	48	32	7	3	2	2
All Other Diseases (000-799)	18	13		1	1	2	2	3	1	6		2	4	2	3	2	2
All Accidents (E800-E949)	14	5				1		2	1	2		2		2	2	5	2
Motor Vehicle Accidents (810-825)	3	1							1			1				2	
Accidental Drowning and Submersion (910)	4	3										1		1	1	2	2
Mechanical Suffocation in Bed or Cradle and In Other and Unspecified Circumstances (E913)	5							2		1				1		1	
All Other Accidents	2	1				1				1					1		
Homicide (E960-E978)	1	3										1	2				1
Injury Undetermined Whether Accidentally or Purposely Inflicted (E980-E988)	1							1									

Table 41

Infant Mortality by Leading Causes by Place of Residence, Washington State 1989

County and City	Total All Causes	Birth Injuries	Other Causes Of Mortality In Early Infancy	Congenital Malformations	Influenza and Pneumonia	All Accidents	Sudden Infant Death	All Other Causes
State Total	686	69	180	148	4	19	196	70
Adams	3		1				1	1
Asotin	5						5	
Benton	23	5	9	4			2	3
Kennewick	13	2	4	3			1	3
Richland	5	1	4					
Chelan	10		3	2			3	2
Wenatchee	4		1	1			1	1
Clallam	3	1		1			1	
Port Angeles	1						1	
Clark	30	2	9	6			8	5
Vancouver	8		4	1			2	1
Cowlitz	6		2	2			2	
Columbia								
Kelso								
Longview	5		1	2			2	
Douglas	4		1	2			1	
Ferry								
Franklin	6			1		2	3	
Pasco	5					2	3	
Garfield								
Grant	7		1	3			3	
Moses Lake	4		1	1			2	
Grays Harbor	9	1	3				4	1
Aberdeen	5	1	1				3	
Island	6	1	1	2		1	1	
Oak Harbor	1						1	
Jefferson	4		1	1			2	
King	180	19	53	35	2	3	50	18
Auburn	8	2	3	2		1		
Bellevue	14		5	4			1	4
Bothell (part)								
Des Moines	2		2					
Kent	4	1		1			2	
Kirkland	5			2			3	
Mercer Island								
Redmond	2						2	
Renton	4			1			2	1
Seattle	66	5	21	12		2	21	5
Kitsap	25	1	7	8		2	3	4
Bremerton	11		3	5		1	1	1
Kittitas	5		2	2			1	
Ellensburg	2			2				
Klickitat	4	2		1			1	
Lewis	14	2	2	3		1	6	
Lincoln								
Mason	5		1				4	
Okanogan	6	2	1	1			2	
Pacific	3	1		1			1	
Pend Oreille	1						1	
Pierce	108	10	28	28	1	6	21	14
Puyallup								
Tacoma	40	5	7	10		3	8	7
San Juan	2		1	1				
Skagit	13	1	5	1			6	
Mount Vernon	2		2					
Skamania								
Snohomish	68	5	13	17		2	23	8
Edmonds	8	1	1	2			4	
Everett	15		3	4			4	4
Lynnwood	9		5	1			2	1
Mountlake Terrace	2			1			1	
Spokane	51	5	14	9		1	17	5
Spokane (city)	33	2	7	6			14	4
Stevens	5		1	4				
Thurston	16	3	5				7	1
Lacey	1		1					
Olympia	5	1	2				2	
Wahkiakum	1		1					
Walla Walla	5		1	1		1	1	1
Walla Walla (city)	2		1			1		
Whatcom	11	1	4	3			3	
Bellingham	3		1				2	
Whitman	6	1	1	3			1	
Pullman	3		1	2				
Yakima	41	6	9	6	1		12	7
Yakima (city)	9	1	2	2			2	2

Table 42

Matched Infant Deaths by Mother's Race by Place of Residence, Washington State 1989[1]

County and City	Total	White	African-American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unknown	Hispanic[2]
State Total	686	531	48	37	1	2	2	22		43	37
Adams	3	3									2
Asotin	5	5									
Benton	23	22						1			4
Kennewick	13	13									3
Richland	5	4						1			
Chelan	10	10									3
Wenatchee	4	4									1
Clallam	3	1		1						1	
Port Angeles	1	1									
Clark	30	27		1				1		1	
Vancouver	8	8									
Columbia											
Cowlitz	6	6									
Kelso											
Longview	5	5									
Douglas	4	4									
Ferry											
Franklin	6	4	1	1							2
Pasco	5	3	1	1							1
Garfield											
Grant	7	6	1								3
Moses Lake	4	3	1								1
Grays Harbor	9	8								1	
Aberdeen	5	5									
Island	6	5	1								
Oak Harbor	1		1								
Jefferson	4	3								1	
King	180	123	25	5	1		1	9		16	5
Auburn	8	6		1						1	
Bellevue	14	13								1	3
Bothell (part)											
Des Moines	2	2									
Kent	4	4									
Kirkland	5	3								2	
Mercer Island	3	1						1		1	
Redmond	2	2									
Renton	4	2		2							
Seattle	66	34	20	2	1		1	4		4	1
Kitsap	25	22	3								
Bremerton	11	9	2								
Kittitas	5	3						1		1	
Ellensburg	2	1						1			
Klickitat	4	4									
Lewis	14	13	1								
Centralia	4	4									
Lincoln											
Mason	5	5									
Okanogan	6	3		3							2
Pacific	3	3									
Pend Oreille	1	1									
Pierce	108	81	14	4		2	1	4		2	1
Puyallup											
Tacoma	40	27	3	3		1	1	4		1	
San Juan	2	2									
Skagit	13	9		2						2	1
Anacortes	2	2									
Mount Vernon	2									2	
Skamania											
Snohomish	68	56		1				4		7	3
Edmonds	8	6						1		1	
Everett	15	12						1		2	
Lynnwood	9	8						1			1
Mountlake Terrace	2	1						1			
Spokane	51	41	1	3				1		5	
Spokane (city)	33	27	1	3						2	
Stevens	5	2		1						2	
Thurston	16	13								3	
Lacey	1	1									
Olympia	5	3								2	
Wahkiakum	1	1									
Walla Walla	5	3	1							1	
Walla Walla (city)	2	1								1	
Whatcom	11	8		3							
Bellingham	3	3									
Whitman	6	5						1			
Pullman	3	2						1			
Yakima	41	29		12							11
Yakima (city)	9	9									5

[1] Tables prior to data year 1987 use infants's race at death.

[2] Hispanic numbers are not included in total sum.

Table 43

Matched Infant Deaths by Child's Race at Birth by Place of Residence, Washington State 1989[1]

County and City	Total	White	African American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unknown	Hispanic[2]
State Total	686	517	58	39	1	1	3	26		41	45
Adams	3	3									2
Asotin	5	5									
Benton	23	22						1			4
Kennewick	13	13									3
Richland	5	4						1			
Chelan	10	10									3
Wenatchee	4	4									1
Clallam	3	1		1						1	
Port Angeles	1	1									
Clark	30	26		2				1		1	
Vancouver	8	7		1							
Columbia											
Cowlitz	6	6									1
Kelso											
Longview	5	5									1
Douglas	4	4									
Ferry											
Franklin	6	5	1								3
Pasco	5	4	1								2
Garfield											
Grant	7	6	1								3
Moses Lake	4	3	1								1
Grays Harbor	9	7		1						1	
Aberdeen	5	4		1							
Island	6	5	1								
Oak Harbor	1		1								
Jefferson	4	3								1	
King	180	119	29	5	1		1	10		15	7
Auburn	8	6		1						1	
Bellevue	14	11	1					1		1	3
Bothell (part)											
Des Moines	2	2									
Kent	4	4									
Kirkland	5	3								2	
Mercer Island	3	1						1		1	
Redmond	2	2									
Renton	4	2		2							
Seattle	66	33	21	2	1		1	5		3	2
Kitsap	25	22	3								
Bremerton	11	9	2								
Kittitas	5	3						1		1	
Ellensburg	2	1						1			
Klickitat	4	4									
Lewis	14	13	1								1
Centralia	4	4									1
Lincoln											
Mason	5	3		1				1			
Okanogan	6	4		2							3
Pacific	3	3									
Pend Oreille	1	1									
Pierce	108	76	19	4		1	1	5		2	1
Puyallup											
Tacoma	40	25	5	3		1	1	4		1	
San Juan	2	2									
Skagit	13	9		2						2	1
Anacortes	2	2									
Mount Vernon	2									2	
Skamania											
Snohomish	68	53	1	3				4		7	3
Edmonds	8	6						1		1	
Everett	15	12						1		2	
Lynnwood	9	8						1			1
Mountlake Terrace	2	1						1			
Spokane	51	40	1	3			1	1		5	
Spokane (city)	33	26	1	3			1			2	
Stevens	5	3								2	1
Thurston	16	12		1				1		2	
Lacey	1	1									
Olympia	5	3								2	
Wahkiakum	1	1									
Walla Walla	5	3	1							1	
Walla Walla (city)	2	1								1	
Whatcom	11	8		3							
Bellingham	3	3									
Whitman	6	5						1			
Pullman	3	2						1			
Yakima	41	30		11							12
Yakima (city)	9	9									5

[1] Tables prior to data year 1987 use infants's race at death.

[2] Hispanic numbers are not included in total sum.

Table 44

Matched Infant Deaths[1] by Mother's Age Group by Place of Residence,[2] Washington State 1989

County and City	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State Total	686	1	105	180	169	130	63	12		26
Adams	3			2				1		
Asotin	5		1	4						
Benton	23		3	7	5	3	5			
Kennewick	13		3	5	3		2			
Richland	5			1	2		2			
Chelan	10		2	4	3	1				
Wenatchee	4		2	2						
Clallam	3		2							1
Port Angeles	1		1							
Clark	30		4	5	15	5				1
Vancouver	8			2	5	1				
Columbia										
Cowlitz	6		1	2	2	1				
Kelso										
Longview	5		1	2	2					
Douglas	4			2			1			1
Ferry										
Franklin	6		2	3	1					
Pasco	5		1	3	1					
Garfield										
Grant	7		3	2		1	1			
Moses Lake	4			2		1	1			
Grays Harbor	9			1	2	5				1
Aberdeen	5				1	4				
Island	6		1	2	2	1				
Oak Harbor	1			1						
Jefferson	4		1			2				1
King	180		16	41	59	42	16	3		3
Auburn	8		1	2	4	1				
Bellevue	14			2	4	6	1	1		
Bothell (part)										
Des Moines	2		1		1					
Kent	4			2		2				
Kirkland	5			2	1		2			
Mercer Island	3				1	2				
Redmond	2				1		1			
Renton	4		1		2					1
Seattle	66		4	15	21	17	8	1		
Kitsap	25		1	8	5	6	5			
Bremerton	11		1	4	4	2				
Kittitas	5			1			4			
Ellensburg	2			1			1			
Klickitat	4		3	1						
Lewis	14		3	8		3				
Centralia	4		1	3						
Lincoln										
Mason	5		3	1	1					
Okanogan	6		1	2	3					
Pacific	3			1	2					
Pend Oreille	1			1						
Pierce	108		21	34	26	12	10	1		4
Puyallup										
Tacoma	40		12	12	6	4	3	1		2
San Juan	2					2				
Skagit	13		2	3	3	2	1	2		
Anacortes	2		1	1						
Mount Vernon	2							2		
Skamania										
Snohomish	68		10	9	16	22	5	1		5
Edmonds	8				3	5				
Everett	15		3	5	1	2	2	1		1
Lynnwood	9		1	1	1	4	1			1
Mountlake Terrace	2		1			1				
Spokane	51		10	13	10	8	5			5
Spokane (city)	33		9	10	7	3	2			2
Stevens	5		1				1	1		2
Thurston	16		1	2	2	8	3			
Lacey	1			1						
Olympia	5			1	1	3				
Wahkiakum	1	1								
Walla Walla	5			1	1	2				1
Walla Walla (city)	2					1				1
Whatcom	11		3	4		1	1	2		
Bellingham	3			2			1			
Whitman	6		1	1	3	1				
Pullman	3			1	1	1				
Yakima	41		9	15	8	2	5	1		1
Yakima (city)	9		1	6			2			

[1] Deaths are matched with births to find mother's age.

[2] Residence is the infant's at the time of death.

Table 45

Fetal, Perinatal, Neonatal, and Infant Mortality by Place of Residence, Washington State 1989

County and City	Fetal Deaths Number	Fetal Deaths Ratio[1]	Perinatal Mortality[2] Number	Perinatal Mortality[2] Rate[3]	Neonatal Mortality Number	Neonatal Mortality Rate[4]	Infant Mortality Number	Infant Mortality Rate[4]
State Total	387	5.1	688	9.1	377	5.0	686	9.1
Adams	5	19.8	6	23.3	1	4.0	3	11.9
Asotin	1	3.9	1	3.9			5	19.6
Benton	7	3.9	22	12.2	18	10.0	23	12.8
Kennewick			9	10.6	10	11.8	13	15.3
Richland	4	9.3	7	16.1	5	11.6	5	11.6
Chelan	2	2.2	5	5.6	6	6.7	10	11.2
Wenatchee	1	2.7	1	2.7	2	5.4	4	10.8
Clallam	3	4.1	4	5.5	1	1.4	3	4.1
Port Angeles	2	7.6	2	7.5			1	3.8
Clark	25	6.8	41	11.0	18	4.9	30	8.1
Vancouver	12	7.4	16	9.8	5	3.1	8	4.9
Columbia	2	40.8	2	39.2				
Cowlitz	8	6.2	11	8.4	4	3.1	6	4.6
Kelso	2	7.1	2	7.1				
Longview	3	5.0	5	8.2	3	5.0	5	8.3
Douglas	5	13.2	8	20.9	3	7.9	4	10.6
Ferry	1	13.0	1	12.8				
Franklin	3	3.8	4	5.1	2	2.5	6	7.6
Pasco	2	3.7	2	3.7	1	1.8	5	9.2
Garfield								
Grant	4	4.4	5	5.4	2	2.2	7	7.6
Moses Lake	1	4.9	2	9.8	1	4.9	4	19.7
Grays Harbor	5	5.5	7	7.7	4	4.4	9	9.9
Aberdeen	3	11.5	4	15.2	2	7.7	5	19.2
Island	5	5.3	7	7.4	5	5.3	6	6.4
Oak Harbor	3	6.9	3	6.8			1	2.3
Jefferson	1	5.1	3	15.1	2	10.1	4	20.2
King	101	4.5	180	8.0	100	4.5	180	8.0
Auburn	5	7.5	11	16.4	7	10.5	8	12.0
Bellevue	4	3.7	12	11.0	10	9.2	14	12.8
Bothell (part)	1	5.5	1	5.5				
Des Moines	1	6.1	1	6.1	1	6.1	2	12.2
Kent	2	2.8	3	4.2	2	2.8	4	5.6
Kirkland	4	8.3	5	10.3	2	4.2	5	10.4
Mercer Island	3	17.1	5	28.1	2	11.4	3	17.1
Redmond	2	4.1	2	4.0			2	4.1
Renton	4	5.6	5	7.0	1	1.4	4	5.6
Seattle	43	5.9	73	10.0	33	4.5	66	9.1
Kitsap	14	4.5	30	9.7	17	5.5	25	8.1
Bremerton	5	4.8	12	11.5	8	7.7	11	10.6
Kittitas	2	6.4	6	19.0	4	12.8	5	16.0
Ellensburg			2	14.0	2	14.0	2	14.0
Klickitat	4	16.7	7	28.8	3	12.6	4	16.7
Lewis	4	4.5	9	10.1	8	9.0	14	15.8
Centralia			3	12.8	4	17.1	4	17.1
Lincoln	1	10.4	1	10.3				
Mason	2	4.5	3	6.7	1	2.2	5	11.2
Okanogan	2	3.9	5	9.8	4	7.8	6	11.8
Pacific			2	8.6	2	8.6	3	12.9
Pend Oreille							1	6.8
Pierce	52	5.2	96	9.6	61	6.1	108	10.8
Puyallup	2	4.2	2	4.2				
Tacoma	21	6.2	35	10.3	20	5.9	40	11.9
San Juan							2	18.7
Skagit	4	3.4	10	8.6	9	7.8	13	11.2
Anacortes					1	7.9	2	15.7
Mount Vernon	1	3.0	3	8.9	2	6.0	2	6.0
Skamania								
Snohomish	33	4.2	60	7.6	34	4.3	68	8.7
Edmonds	4	9.5	7	16.5	3	7.1	8	19.0
Everett	8	4.7	15	8.8	7	4.1	15	8.8
Lynnwood	3	3.9	9	11.8	7	9.2	9	11.8
Mountlake Terrace					2	6.4	2	6.4
Spokane	32	5.9	54	9.9	24	4.4	51	9.4
Spokane (city)	14	4.2	24	7.2	12	3.6	33	9.9
Stevens	5	11.1	10	22.0	5	11.1	5	11.1
Thurston	7	3.1	12	5.3	7	3.1	16	7.1
Lacey	1	4.0	2	7.9	1	4.0	1	4.0
Olympia	1	1.4	3	4.3	2	2.8	5	7.1
Wahkiakum			1	27.0	1	27.0	1	27.0
Walla Walla	6	9.8	7	11.3	1	1.6	5	8.1
Walla Walla (city)	4	10.7	5	13.2	1	2.7	2	5.3
Whatcom	7	4.0	14	8.0	7	4.0	11	6.3
Bellingham	4	5.8	5	7.2	1	1.5	3	4.4
Whitman	5	12.7	10	25.1	5	12.7	6	15.2
Pullman	1	4.8	4	19.0	3	14.3	3	14.3
Yakima	29	7.9	44	11.9	18	4.9	41	11.2
Yakima (city)	11	10.1	15	13.6	4	3.7	9	8.2

[1] Ratio per 1,000 live births
[2] Fetal deaths plus liveborn infants dying at 6 days and under
[3] Rate per 1,000 live births plus fetal deaths
[4] Rate per 1,000 live births

Table 46

Fetal, Perinatal, Neonatal and Infant Mortality by Place of Occurrence, Washington State 1989

County and City	Fetal Deaths		Perinatal Mortality[2]		Neonatal Mortality		Infant Mortality	
	Number	Ratio[1]	Number	Rate[3]	Number	Rate[4]	Number	Rate[4]
State Total	380	5.1	671	9.0	369	5.0	873	9.1
Adams	5	16.9	6	19.9	1	3.4	2	6.8
Asotin							3	
Benton	8	3.7	16	7.4	10	4.7	14	6.5
Kennewick	1	1.1	4	4.5	4	4.5	6	6.7
Richland	5	5.5	9	9.8	5	5.5	6	6.6
Chelan	5	4.0	7	5.6	3	2.4	6	4.8
Wenatchee	5	4.3	6	5.2	1	0.9	2	1.7
Clallam	3	4.1	4	5.5	1	1.4	2	2.7
Port Angeles	2	3.2	2	3.2			1	1.6
Clark	12	5.0	13	5.3	2	0.8	11	4.5
Vancouver	12	5.0	12	5.0	1	0.4	8	3.3
Columbia								
Cowlitz	9	6.4	10	7.0	1	0.7	4	2.8
Kelso								
Longview	9	6.4	10	7.1	1	0.7	4	2.9
Douglas	1	90.9	1	83.3			1	90.9
Ferry								
Franklin	3	4.7	4	6.2	1	1.6	5	7.8
Pasco	3	4.7	4	6.2	1	1.6	5	7.8
Garfield								
Grant	3	4.2	4	5.6	1	1.4	3	4.2
Moses Lake	3	5.1	4	6.8	1	1.7	3	5.1
Grays Harbor	4	5.6	4	5.5			4	5.6
Aberdeen	4	5.6	4	5.6			4	5.6
Island	3	4.1	4	5.5	3	4.1	4	5.5
Oak Harbor					2	285.7	2	285.7
Jefferson	1	6.5	1	6.5			2	13.1
King	125	4.9	252	9.9	162	6.4	260	10.2
Auburn	2	2.4	3	3.6	1	1.2	2	2.4
Bellevue	8	3.3	13	5.3	5	2.0	10	4.1
Bothell (part)								
Des Moines								
Kent			1	29.4	1	29.4	4	117.6
Kirkland	5	2.4	5	2.4	1	0.5	4	1.9
Mercer Island								
Redmond	7	4.2	7	4.2			2	1.2
Renton	9	3.1	10	3.4	1	0.3	5	1.7
Seattle	86	6.1	202	14.3	149	10.6	223	15.9
Kitsap	13	4.9	19	7.1	6	2.3	11	4.2
Bremerton	8	4.1	12	6.2	4	2.1	8	4.1
Kittitas	1	3.7	1	3.7			1	3.7
Ellensburg	1	3.8	1	3.7				
Klickitat	3	13.0	3	12.8			1	4.3
Lewis	3	3.3	4	4.4	3	3.3	8	8.8
Centralia	3	4.1	3	4.1	1	1.4	3	4.1
Lincoln	1	83.3	1	76.9				
Mason	1	5.6	1	5.6			5	28.2
Okanogan	2	3.8	5	9.4	3	5.7	5	9.5
Pacific							1	26.3
Pend Oreille							1	33.3
Pierce	51	4.8	110	10.3	79	7.4	126	11.8
Puyallup	4	2.6	10	6.5	7	4.6	10	6.5
Tacoma	33	5.0	72	10.9	54	8.2	86	13.1
San Juan								
Skagit	7	4.9	10	6.9	5	3.5	9	6.2
Anacortes	1	4.7	1	4.6	2	9.3	3	14.0
Mount Vernon	4	4.4	6	6.6	2	2.2	3	3.3
Skamania								
Snohomish	23	4.3	26	4.8	5	0.9	33	6.1
Edmonds	10	6.0	12	7.2	2	1.2	8	4.8
Everett	12	3.9	13	4.2	1	0.3	11	3.6
Lynnwood							1	66.7
Mountlake Terrace					1	166.7	1	166.7
Spokane	43	7.0	92	14.8	56	9.1	89	14.5
Spokane (city)	42	7.4	90	15.7	55	9.6	88	15.4
Stevens	4	12.2	4	12.0				
Thurston	1	0.5	3	1.4	2	0.9	8	3.8
Lacey								
Olympia	1	0.5	3	1.4	2	1.0	6	2.9
Wahkiakum								
Walla Walla	7	8.4	8	9.5	2	2.4	5	6.0
Walla Walla (city)	7	8.4	8	9.5	2	2.4	5	6.0
Whatcom	5	3.0	7	4.1	2	1.2	5	3.0
Bellingham	5	3.0	7	4.2	2	1.2	5	3.0
Whitman	4	11.7	6	17.3	2	5.8	3	8.7
Pullman	4	13.1	6	19.4	2	6.5	2	6.5
Yakima	29	8.2	45	12.5	19	5.3	41	11.5
Yakima (city)	22	8.3	37	13.9	18	6.8	30	11.3

[1] Ratio per 1,000 births.
[2] Fetal deaths plus liveborn infants dying at 6 days and under.
[3] Rate per 1,000 live births plus fetal deaths.
[4] Rate per 1,000 live births.

Table 47

Fetal Mortality by Sex and Weight, Washington State Residents 1989

Gram Weight	Total	Male	Female	Unknown
State Total	387	199	187	1
1,000 grams or less	156	88	67	1
1,001 - 1,500	41	20	21	
1,501 - 2,000	27	8	19	
2,001 - 2,500	37	18	19	
2,501 - 3,000	23	10	13	
3,001 - 3,500	26	11	15	
3,501 - 4,000	15	8	7	
4,001 - 4,500	8	5	3	
4,501 and Over	7	3	4	
Not Stated	47	28	19	

Table 48

Fetal Mortality by Cause, Washington State Residents 1989

Cause with International List Number		Totals
Total All Causes		387
Congenital Anomalies (740-759)		50
Anencephalus (740)	4	
Spina Bifida (741)		
Other Anomalies of the Central Nervous System (742)	1	
Anomalies of the Heart (745-746)	7	
Other Anomalies of Circulatory System (747)		
Anomalies of Respiratory System (748)	2	
Anomalies of Digestive System (749-751)		
Anomalies of the Genitourinary System (752-753)	5	
Anomalies of Musculoskeletal System (754-756)	6	
Chromosomal Anomalies (758)	7	
Other and Unspecified Congenital Anomalies (743-744,757,759)	18	
Certain Causes of Perinatal Morbidity and Mortality (760-779)		336
Maternal Conditions which may be Unrelated to Pregnancy (760)		
Chronic Hypertension (760.0)	5	
Maternal Infections (760.2)	1	
Maternal Injury (760.5)	3	
Other Maternal Conditions (760.1,760.3-760.4,760.6-760.9)	11	
Maternal Conditions Related to Pregnancy (761)		
Incompetent Cervix (761.0)	12	
Premature Rupture of Membranes (761.1)	14	
Other Maternal Conditions (761.2-761.9)	7	
Complications of Placenta, Cord, and Membranes (762)		
Complications of Placenta (762.0-762.3)	64	
Complications of Cord (762.4-762.6)	76	
Complications of Membranes (762.7-762.9)	9	
Complications of Labor (763)	3	
Other Complications of Pregnancy and Childbirth (764-767)	12	
Intrauterine Hypoxia (768)	6	
Diseases of the Fetus and Ill-defined Causes (769-779)		
Respiratory Conditions (769-770)	1	
Infections Specific to the Perinatal Period (771)	2	
Fetal Hemorrhage (772)	5	
Haemolytic Disease and Other Perinatal Jaundice (773-774)	1	
Endocrine and Metabolic Disturbances (775)	2	
Haematological Disorders (776)		
Disorders of Digestive System (777)		
Conditions Involving the Integument and Temperature Regulation (778)	6	
Other Conditions of Fetus (779)	96	
All Other Causes (001-739,780-799)		1

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Table 49

Fetal Deaths by Mother's Age Group by Place of Residence, Washington State 1989

County	All Ages	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State Total	387	3	22	33	76	122	70	35	6		20
Adams	5		1		1	1	1				1
Asotin	1						1				
Benton	7			2	1	3	1				
Chelan	2		1								1
Clallam	3				1	1		1			
Clark	25		1	3	6	7	5	2			1
Columbia	2				1						1
Cowlitz	8			3		4	1				
Douglas	5	1	1		1		2				
Ferry	1				1						
Franklin	3				1	1		1			
Garfield											
Grant	4		2	1				1			
Grays Harbor	5		1		2	1			1		
Island	5				1	4					
Jefferson	1						1				
King	101	1	5	4	13	31	28	11	1		7
Kitsap	14			2	4	2	3	3			
Kittitas	2								1		1
Klickitat	4			1	1		2				
Lewis	4				3			1			
Lincoln	1										1
Mason	2				2						
Okanogan	2		1			1					
Pacific											
Pend Oreille											
Pierce	52			5	14	23	7	2			1
San Juan											
Skagit	4					2	1	1			
Skamania											
Snohomish	33		2	4	10	10	5	1	1		
Spokane	32		2	4	4	14	3	1	2		2
Stevens	5		1			1	2	1			
Thurston	7				1	3		2			1
Wahkiakum											
Walla Walla	6	1	1		1	1		1			1
Whatcom	7					3	2	2			
Whitman	5			1	1	3					
Yakima	29		3	3	6	6	5	4			2

INDUCED TERMINATIONS OF PREGNANCY

Induced Terminations of Pregnancy

Introduction

Abortion surveillance has been conducted by State public health officials since December, 1970. Induced abortion had become a legally allowable procedure in Washington State the previous month, when the then existing criminal abortion statute was overturned by referendum. The new law, which had some restrictions, was later superceded by United States Supreme Court decision in Roe v. Wade (1973).

Initially, the purpose of the abortion reporting system was to evaluate the safety and adequacy of procedures. The data are also important for assessment in two other areas of public health concern: 1) prevention of unwanted pregnancies and 2) access to abortion services. Trends pertinent to each of these issues are illustrated in graphs and by map on this and the following pages. In addition, both state and county data are arrayed in the Induced Terminations of Pregnancy chapter of the tables section.

All the usual problems of data collection—underreporting, incompleteness, and inaccuracy—impose qualifications on any conclusions. See the Technical Notes, Appendices A and B, in this report for more detail on reporting problems and definitional issues.

Overview

The reported total of induced abortions occurring in Washington State increased 1,114 from 29,802 to 30,916, proportionately a change of 3.7%. Concomitantly, resident abortions increased 1,277 from 29,175 to 30,452 in 1989, a percentage increase of 4.4%.

Total Induced Abortions per Year
Washington State Occurrences, 1974–1989

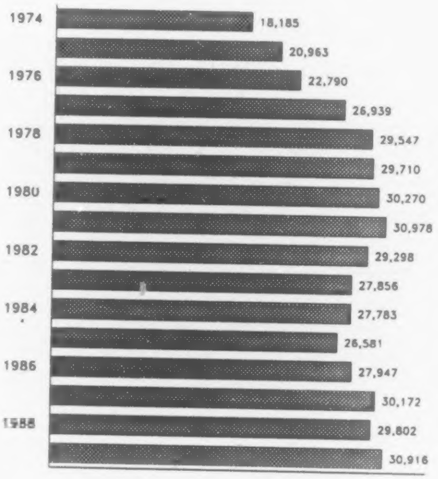
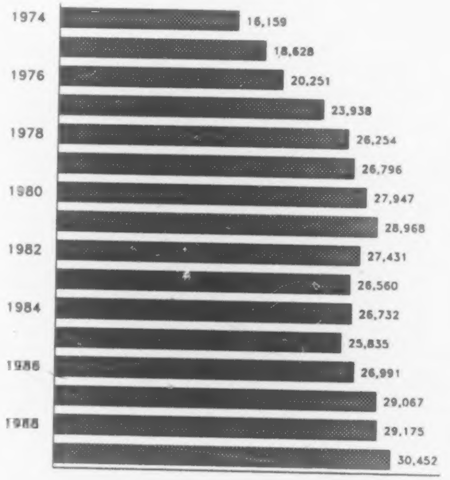


Figure 8

Total Induced Abortions per Year
Washington State Residents, 1974–1989*



*Resident abortion totals for the years 1974–1977 are estimates based on the total occurring in those years.

Figure 9

In general, change among age groups was moderate. Among abortion occurrences, the data shows percent change in age groups varying from -16.7% for those over 45 to 25.6% for 40-44 year-olds. The greatest positive differences in raw figures were among 30-34 year-olds, up 277; and 15-19 year-olds, an additional 278.

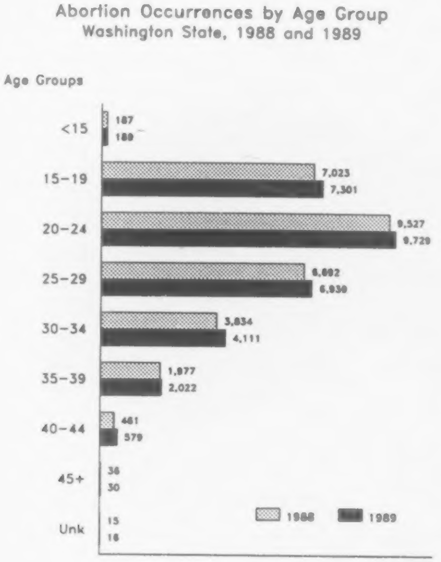


Figure 10

Change in residence totals among age groups was also modest. The greatest percentage gain was again among those 40-44 years old, a rise of 25.7%. The greatest absolute difference was in the 25-29 age group with 280 more. The only age groups to exhibit decline were those under 15 with a total of 181, four fewer than the previous year, a change of -2.2% and those over 45 with a decrease of eight from 1988 for a total of 27. These numbers are quite small and should be interpreted with caution.

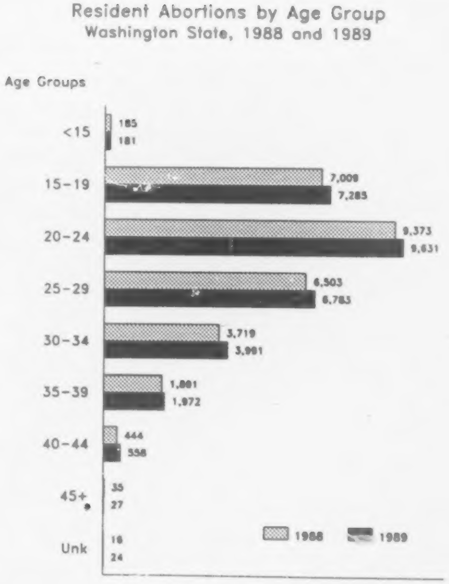
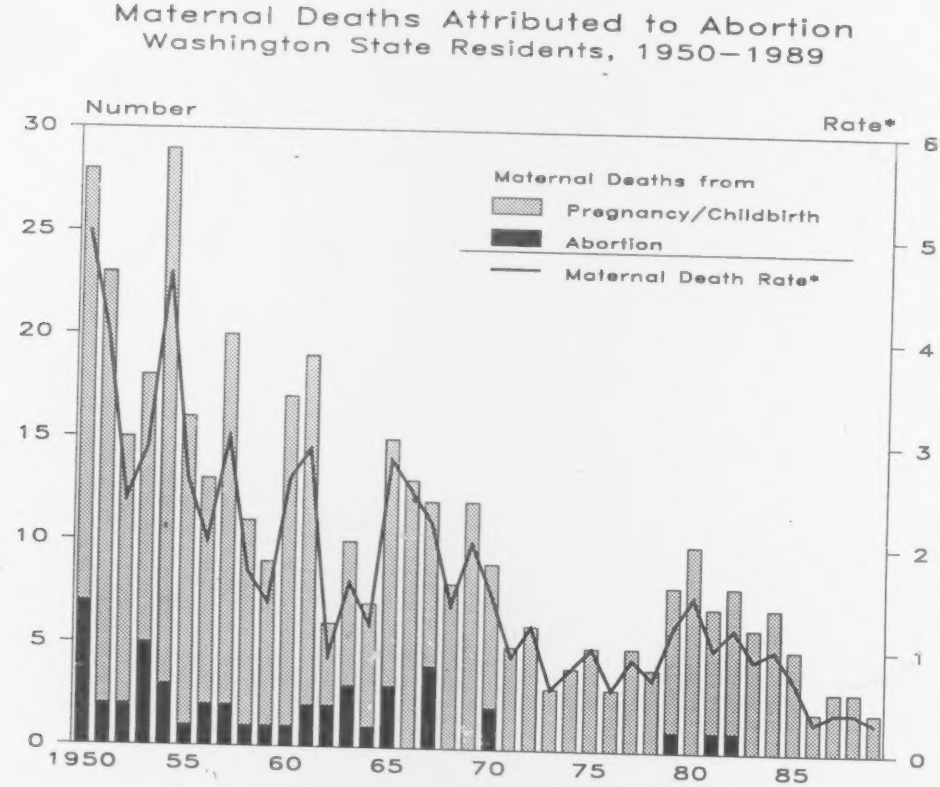


Figure 11

Mortality



*Maternal Death Rate=Deaths due to maternal causes per 10,000 live births.

Figure 12

Trends in abortion related mortality, show that abortion has been nearly eliminated as a contributing factor in maternal deaths. Maternal deaths are deaths to women which are a result of complications of pregnancy or occur within six weeks of either live birth or abortive outcome. The maternal death rate is equal to the number of these deaths per 10,000 live births.

The data illustrated in the chart above do not differentiate between legal and illegal abortions. The two deaths in 1970 took place prior to the passage of the referendum in that year. The three deaths which occurred in the years following 1970 were the result of complications—one each, from: a legally induced abortion procedure (performed as a consequence of IUFD, intrauterine fetal demise) in 1979, a self-induced abortion in 1981, and a spontaneous abortion in 1982.

Nationally, the death-to-case rate, that is the number of deaths per 100,000 legally induced abortions, was 0.8 in 1983, 0.8 in 1984, and provisionally 0.5 in 1985.*

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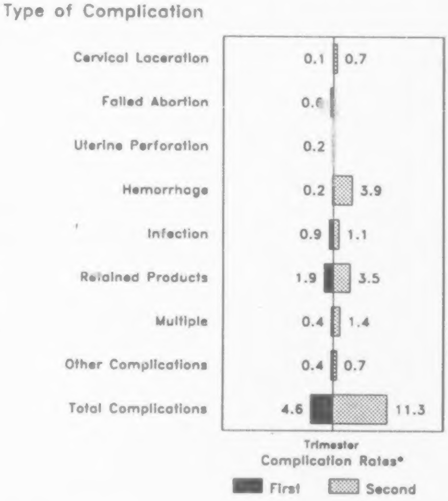
*United States Department of Health and Human Services, Centers for Disease Control, Center for Chronic Disease, Prevention, and Health Promotion, Division of Reproductive Health, *Abortion Statistics, U.S. 1984-1985 (Pre-release to State Health Agencies, 1989).* Atlanta, GA: 1989.

Morbidity

Typically, second trimester abortions have a higher complication rate than first trimester terminations. It should be noted that the division between first and second trimester is somewhat arbitrary at twelve weeks and complications are not always completely reported for either semester.

Hemorrhage and retained products were the most frequently reported complications among second trimesters procedures in 1989. For first trimester abortions, the most frequently occurring complication was retained products. Some of the other complications, e.g. infection, may be artificially low due to the completion of reporting forms before some complications are known.

Complication Rates by Type and Trimester
Washington State Occurrences, 1989



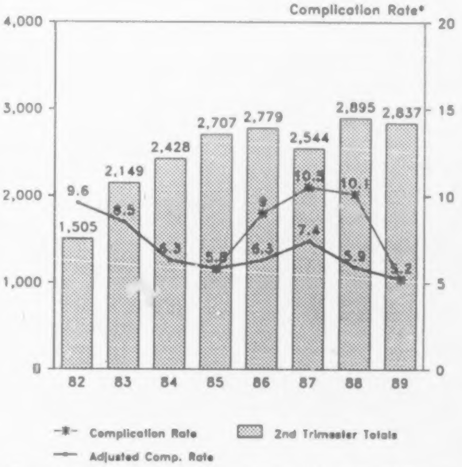
*Complication Rate=Complications per 1,000 procedures.

Figure 13

In December, 1982 the abortion law was liberalized to allow second trimester procedures in approved nonhospital facilities. This factor and improved reporting may account for some of the rise in second trimester abortions that has occurred since 1983. Since 1985, the total number second trimester procedures has wavered between 2,700 and 2,900. In 1989, total second trimester procedures numbered 58 fewer than the previous year, a drop of -2%.

In 1989, the adjusted complication rate and the reported complication rate came together at 5.2 complications per 1,000 procedures. In prior years, the complication rate was adjusted to exclude minor complications, such as unexplained pain and hemorrhage less than 500cc, reported under other complications. This adustment was unnecessary for 1989 data, as such minor complications were not reported.

Complication Rates and
Second Trimester Procedures
Washington State Occurrences, 1982–1989



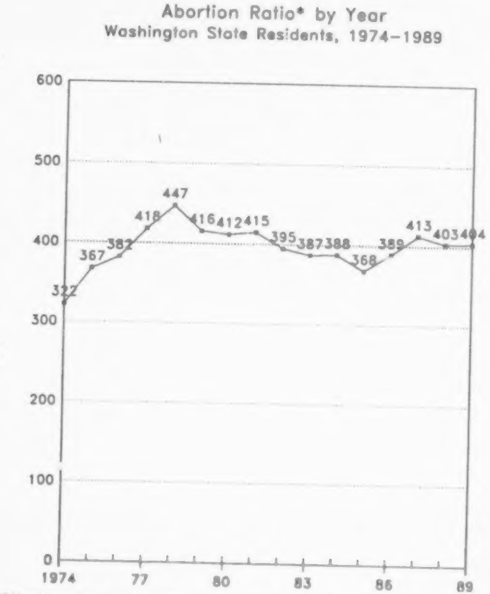
*Complication Rate = Complications per 1,000 procedures
(includes both trimesters)

Figure 14

Rates and Ratios

Pregnancy, abortion, and fertility rates and the abortion ratio are statistical indicators frequently used to assess need and efficacy of programs for the prevention of unwanted pregnancy.

Abortion ratios quantify, to some degree, the level of unwanted pregnancy. In 1989, the abortion ratio remained nearly constant with the previous year at 404 abortions per 1,000 live births. The peak year for this statistical indicator was 1978. Afterwhich, it declined steadily until 1986, when it began a new rise.



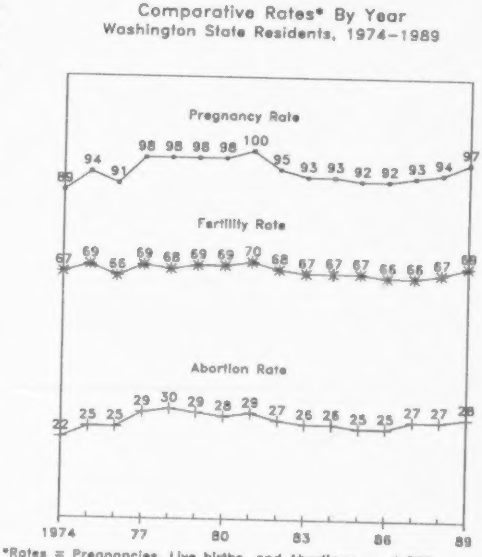
*Abortion Ratio = Abortions per 1,000 Live births

Figure 15

Pregnancy, fertility, and abortion rates are population based indicators. They quantify the incidence of these events among a population. In Washington State, all three of these rates peaked in 1981. In 1989, these rates were at their highest level since that time.

The pregnancy rate can be understood as a compilation of the other two rates, abortion and fertility. Fetal death rates which are also included as part of pregnancy rates rarely form a significant component. The three-point rise in the pregnancy rate, was accompanied by a two-point rise in the fertiliy rate and a one-point rise in the abortion rate.

Abortion rates can be affected by either or both a change in the number of women getting pregnant (expressed mathematically by the pregnancy rate) or by the number of pregnant women choosing abortion (expressed indirectly by abortion ratios). The increase in the abortion rate can be understood as resulting largely from increased pregnancies among women 15-44; as the change in the abortion ratio was very small.



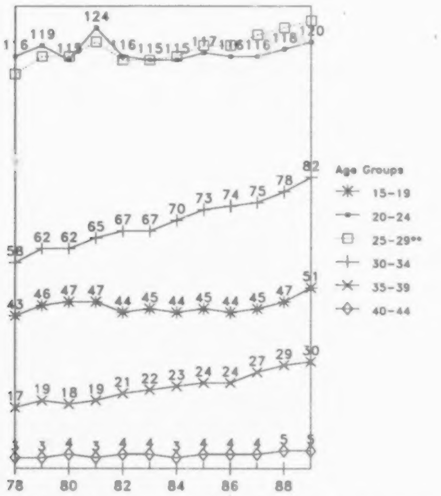
*Rates = Pregnancies, Live births, and Abortions per 1,000 women aged 15–44

Figure 16

Since 1978, the greatest change in either the abortion or fertility rate within individual age groups has been in fertility rates among 35-39 year-olds and 30-34 year-olds (+76% and +41%, respectively). In the same ten years, the 15-19 year-olds were the only age group to show a decline in either rate, exhibiting a six percent decrease in their abortion rate. The fertility rate for this age group is at its highest point since 1978.

These trends are illustrated in the charts on the following page.

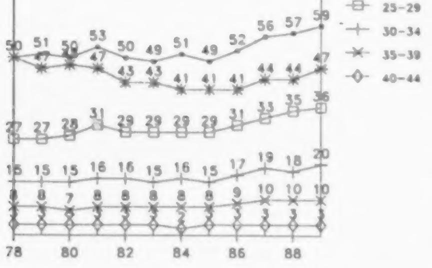
Age–Specific Fertility Rates*
Washington State Residents, 1978–1989



*Fertility Rate = Live births per 1,000 women in each age group
**Values not shown.

Figure 17

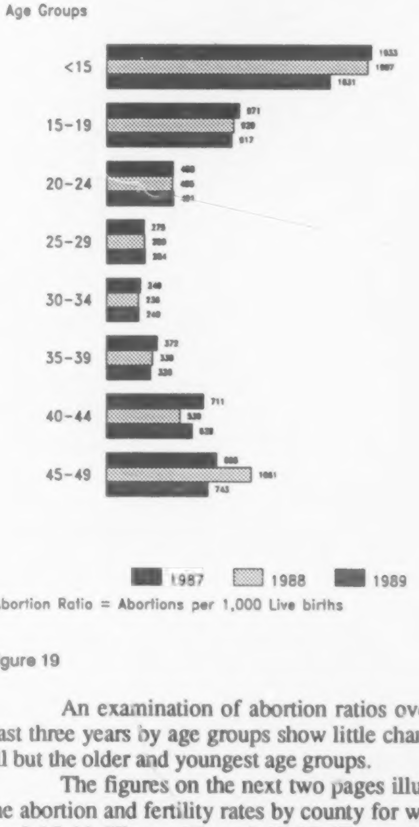
Age–Specific Abortion Rates*
Washington State Residents, 1978–1989



*Abortion Rate = Abortions per 1,000 women in each age group

Figure 18

Abortion Ratios* by Age Group
Washington State Residents, 1987–1989



*Abortion Ratio = Abortions per 1,000 Live births

Figure 19

An examination of abortion ratios over the past three years by age groups show little change in all but the older and youngest age groups.

The figures on the next two pages illustrate the abortion and fertility rates by county for women aged 15-44 (Figure 17) and 15-17 (Figure 18). In addition, each chart shows the counties ranked by a third variable—abortion ratio* and pregnancy rate, respectively. These variables were chosen for ranking based on the prevention issues pertinent to each age group—unwanted pregnancy at all ages in Figure 17 and high school age pregnancy in Figure 18. (The highest levels for these variables are at the top of each chart.)

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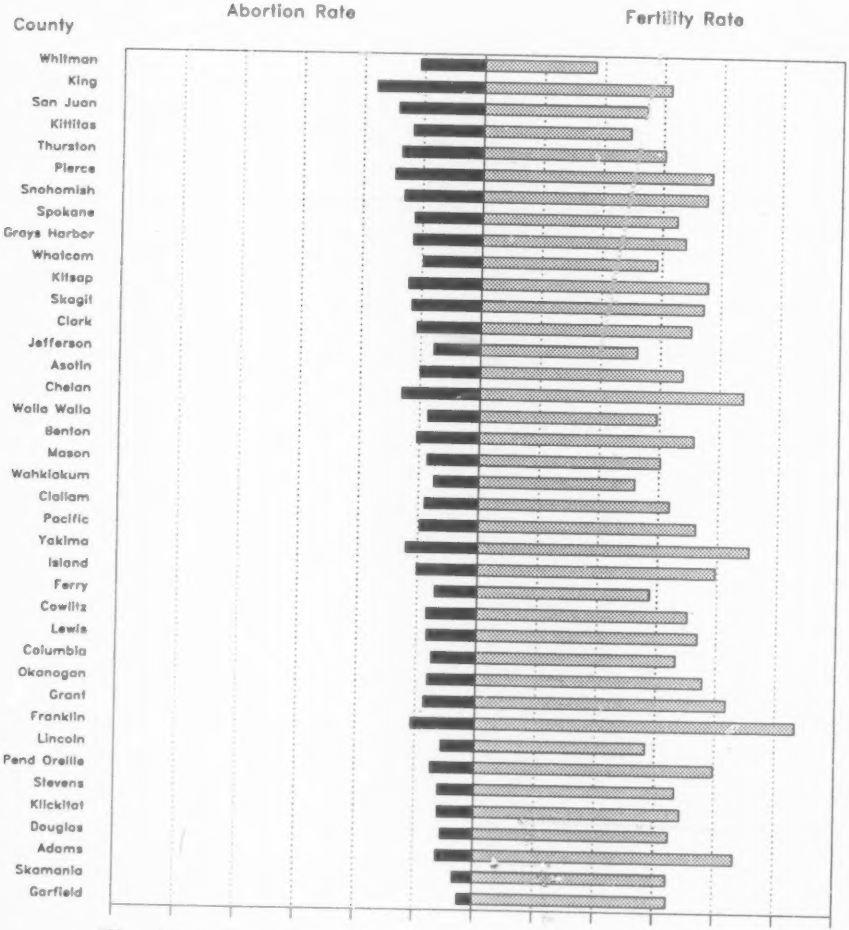
*It should be understood that abortion ratios are more mercurial than rates because they are based on smaller divisors—small differences in total events can make large differences in the ratios from year to year. Furthermore, differences can be compounded. If total pregnancies remain the same, an increase in live births automatically creates a decrease in abortions or vice versa; thereby, doubling the effect on an abortion ratio.

The figure below shows county abortion and fertility rates and ranking by abortion ratio.

Abortion & Fertility Rates*
For Washington State Counties 1989
Ranked in Order by Abortion Ratio**



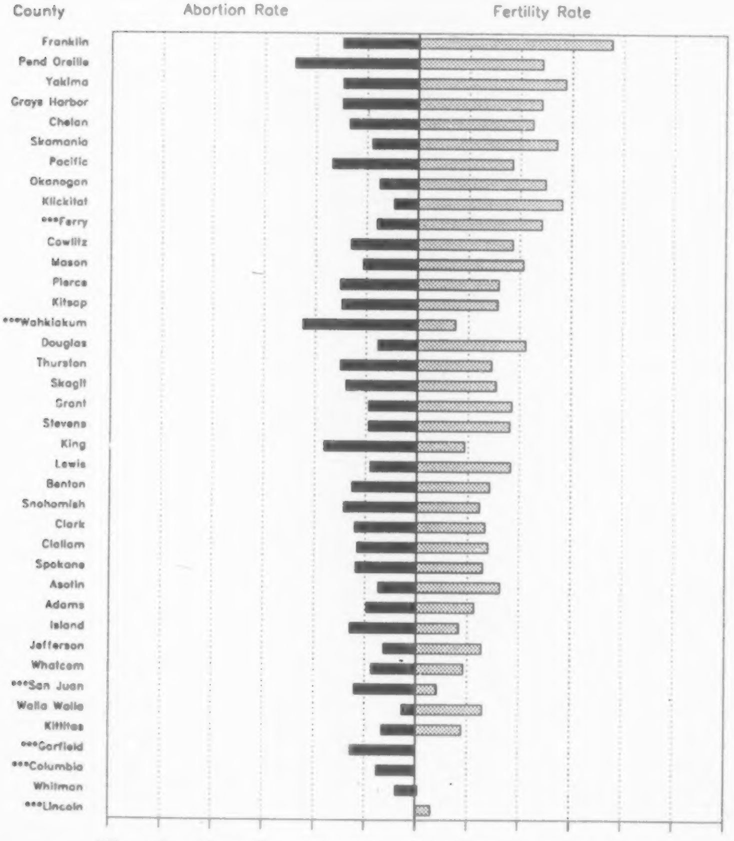
*Rates=Events per 1,000 women aged 15-44

**Ratio=Abortions per 1,000 live births, women aged 15-44

Figure 20

The chart on this page illustrates fertility and abortion rates for 15-17 year-olds in the 39 counties and ranks them by pregnancy rate for this age group. Some counties have very small populations of high-school-age women. For these counties, a small number of pregnancies in this age group often formulates a comparatively high rate which may vary considerably year to year. In these instances, data for several years should be examined. Six counties (Columbia, Ferry, Garfield, Lincoln, San Juan, and Wahkiakum) had a total of ten or fewer pregnancies among high school age women.

High School Abortion & Fertility Rates*
For Washington State Counties 1989
Ranked in Order by Pregnancy Rate*



*Rates=Events per 1,000 women aged 15-17

***Counties with 10 or fewer reported HS pregnancies.

Figure 21

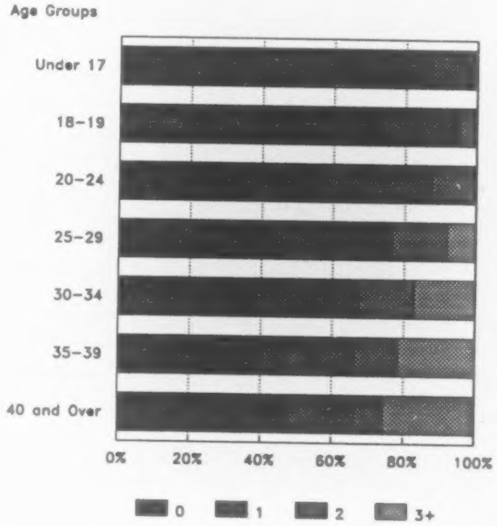
Repeat Abortion

Repeat abortion is the commonly used term for cases with a patient history of one or more previous induced termination. Besides failure to take precautions to prevent pregnancy, there are a myriad of possible reasons, for a history of a repeat abortion (or for obtaining any abortion, for that matter), e.g., contraceptive failure, fetal or maternal health problems, changes in economic, social, or psychological circumstances, incest, and/or rape.* No data is collected by the Washington State Abortion Reporting System on patients' use of contraceptives or reasons for choosing abortion.

Pregnancy history has been collected by the Abortion Reporting Form since 1981. Comparisons by age group should reflect an awareness of two countervailing factors at work in age-specific data on repeat abortion: 1)Older women are more at risk for repeat abortion because chances of a previous abortion is a function of age, and 2) Younger women are more at risk for repeat abortion because abortion has been legal for a longer portion of their lives.

Figure 19 portrays the percentage of previous induced terminations by age. Unknowns were not tabulated. They approximate six to nine percent in each age group.

Repeat Abortion
Percentages by Age Group
Washington State Residents, 1989



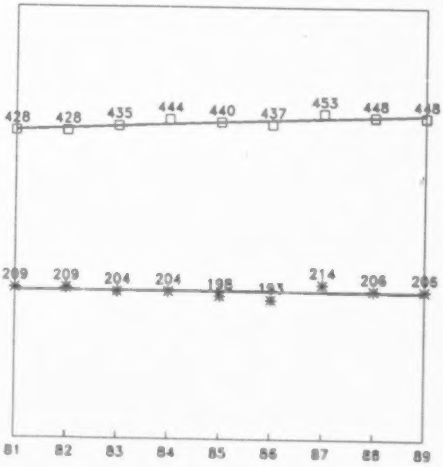
*Unknowns not included in calculations.

Figure 22

Figure 20 shows the trends in repeat abortion rates for women aged 15-19 and 20-24 since 1981. The trendline for the repeat abortion rate (repeat abortions per 1,000 procedures) for the younger age group has remained nearly flat. (Slope = -0.20; Corr = -0.08). For 20-24 year-olds, it shows a slight but moderately steady increase over the seven years. (Slope = +2.8; Corr = +0.87).

Repeat abortions by patient's age by county of residence are arrayed in the tables section of this report.

Repeat Abortion Rates*
Women 15-19 and 20-24 Years of Age
Washington State Residents, 1981-1989



Rate = Number of patients in each age group with history of previous abortion per 1,000 procedures.

Figure 23

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*See Aida Torres and Jacqueline Darroch Forrest. "Why Do Women Have Abortions?" *Family Planning Perspectives*, July/August 1988.

Access to Care

In the past five years, there has been a decline in abortion service providers. The total number of facilities has dropped 24 in the eight years since 1982— five among those reporting fewer than 10 procedures; nine, between 10 and 49; and ten, 50 or more. Since there has not been a corresponding drop in the number of abortions provided, the effect of this decline has been an increased concentration of patient load among fewer providers.

The map below depicts abortion services for counties with populations of 10,000 or more women between the ages of 15 and 44. Ten of these larger counties (Benton, Chelan, Clallam, Cowlitz, Grant, Grays Harbor, Kitsap, Lewis, Walla Walla, and Whitman) have no non-hospital providers within their boundaries. Ninety-seven percent of abortion patients obtained the procedure in a non-hospital setting.

A decline in health care providers is always a public health concern because of the increased potential for adverse effects on patient health. Thus, in addition, to the ongoing concern regarding safety of procedure, attention must remain focused on maintaining access to care, as well as, prevention of the conditions which necessitate that care—in this case, that is—unwanted pregnancy.

Abortion Facilities
Washington State, 1982–1989

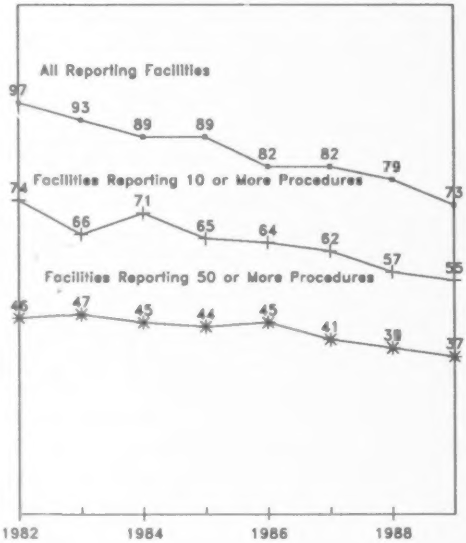
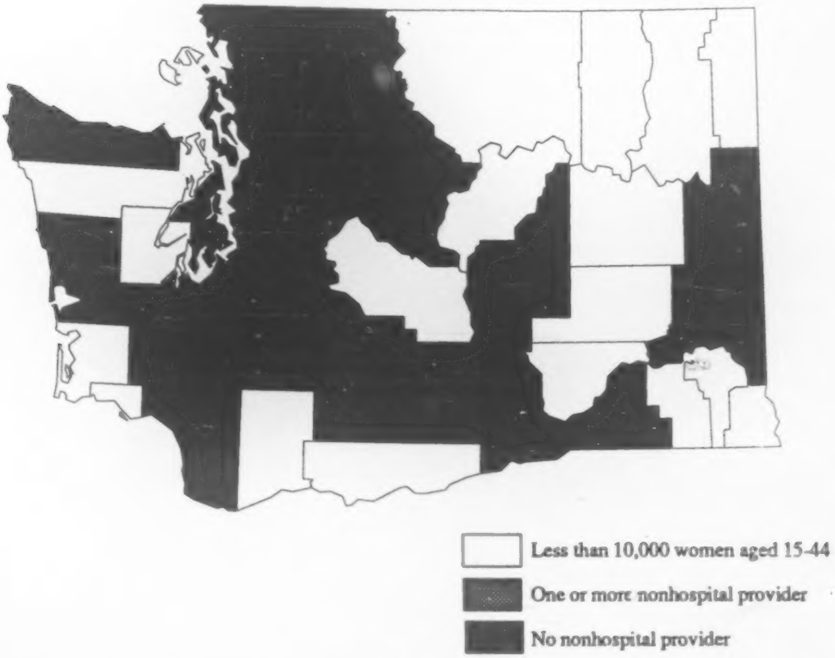


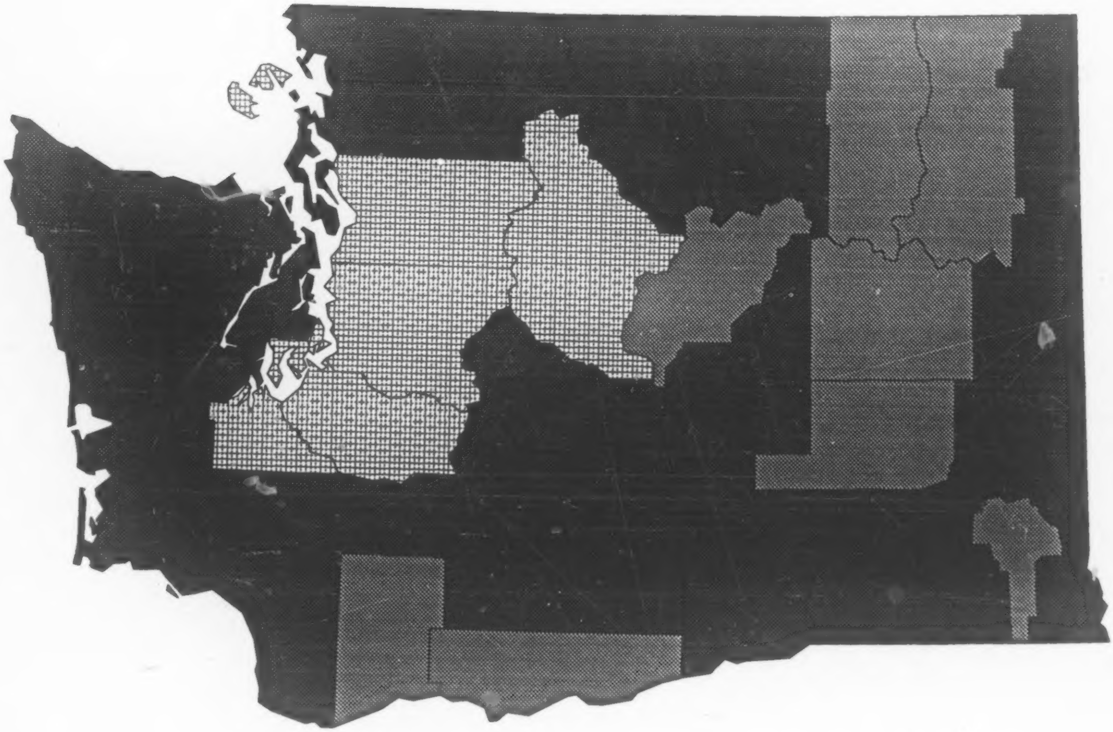
Figure 24

Access to Non-hospital Abortion Services, Washington State 1988
Counties with 10,000 or More Women Aged 15-44


Less than 10,000 women aged 15-44
One or more nonhospital provider
No nonhospital provider

Map 6

Induced Abortions



Washington State, 1989

Abortions/1,000 female population

▨ 5 - 14
■ 15 - 24
▦ 25 or More

Table 50

Induced Terminations of Pregnancy by Selected Topics, 1989

A. Residents, Age Group of Patient

Age Group	Number	Percent
All Ages	30,452	100.0%[1]
Under 15	181	0.6
15 - 17	2,679	8.8
18 - 19	4,606	15.1
20 - 24	9,631	31.6
25 - 29	6,783	22.3
30 - 34	3,991	13.1
35 - 39	1,972	6.5
40 - 44	558	1.8
45 and Over	27	0.1
Unknown	24	0.1

B. Residents, Gestational Age

Weeks	Number	Percent
Total	30,452	100.0%[1]
1 - 4	531	1.7
5 - 8	17,433	57.2
9	4,158	13.7
10	3,162	10.4
11	1,451	4.8
12	1,051	3.5
13 - 15	1,241	4.1
16 - 19	970	3.2
20 +	422	1.4
Unknown	33	0.1

C. Residents, Number of Previous Abortions

Previous Abortions	Number	Percent
Total	30,452	100.0%[1]
0	15,790	51.9
1	7,769	25.5
2	3,097	10.2
3	1,166	3.8
4	439	1.4
Over 4	295	1.0
Unknown	1,896	6.2

D. Residents, Number of Previous Live Births

Previous Live Births	Number	Percent
Total	30,452	100.0%[1]
0	17,200	56.5
1	5,366	17.6
2	3,942	12.9
3	1,439	4.7
4	417	1.4
Over 4	200	0.7
Unknown	1,888	6.2

E. Residents, Number of Previous Pregnancies

Previous Pregnancies	Number	Percent
Total	30,452	100.0%[1]
0	10,500	34.5
1	6,232	20.5
2	4,517	14.8
3	3,206	10.5
4	1,922	6.3
Over 4	2,133	7.0
Unknown	1,942	6.4

F. Residents, Race and Hispanic Origin

Race	Number	Percent
Total	30,452	100.0%
White	17,206	56.5
African American	1,668	5.5
Asian	275	0.9
Native American	1,071	3.5
Other	365	1.2
Unknown	9,867	32.4
Hispanic Origin[2]	408	1.3

Table 50 (Continued)

Induced Terminations of Pregnancy by Selected Topics, 1989

G. Residence and Occurrence, Travel Patterns

Residence	Number	Percent	Occurrence	Number	Percent
Total	30,452	100.0%[1]	Total	30,916	100.0%[1]
Inside Home County	19,819	65.1	County Resident	19,819	64.1
Outside Home County	10,633	34.9	Out-of-County Resident	11,097	35.9

H. Occurrence, Operative Procedure

Procedure	Number	Percent
Tota	30,916	100.0%[1]
Suction Curettage	28,232	90.6
Dilatation & Evacuation	2,570	9.0
Prostaglandin	79	0.3
Sharp Curettage	15	—
Saline	10	—
Hysterectomy/Hysterotomy	4	—
Other	5	—
Unknown	1	—

I. Occurrence, State or Country of Residence

State or Country	Number	Percent
Total	30,916	100.0%[1]
Washington	29,172	94.4
Idaho	388	1.3
Alaska	291	0.9
Oregon	202	0.7
California	43	0.1
Montana	29	0.1
Canada	726	2.3
Other States and Countries	52	0.2
Unknown	13	0.0

J. Occurrence, Type of Complication

Complication	Number	Percent
Total	162	100.0%[1]
Retained Products	62	38.3
Infection	29	17.9
Hemorrhage >500 cc	17	10.5
Uterine Perforation	6	3.7
Failed Abortion	16	9.9
Cervical Laceration	4	2.5
Other Complications	12	7.4
Multiple Complications	16	9.9

K. Occurrence, Type of Facility

Facility Type	Number	Percent
Total	30,916	100.0%[1]
Hospital	874	2.8
Nonhospital	30,042	97.2

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[1] Detail may not add to 100% due to rounding.

[2] Hispanic numbers are not included in total sum.

SHABB4-R001

Table 51

Induced Abortions, Live Births, and Abortion Ratio with Percent Change, Washington State Residents 1974-1989

Year	Induced Abortions[1]	Percent Change	Live Births	Percent Change	Abortion Ratio[2]	Percent Change
1974	16,159		50,096		323	
1975	18,628	+15.3	50,821	+1.4	367	+13.6
1976	20,251	+8.7	53,004	+4.3	382	+4.1
1977	23,938	+18.2	57,256	+8.0	418	+9.4
1978	26,254	+9.7	58,725	+2.6	447	+6.9
1979	26,796	+2.1	64,377	+9.6	416	-6.9
1980	27,947	+4.3	67,857	+5.4	412	-1.0
1981	28,968	+3.7	69,756	+2.8	415	+.7
1982	27,431	-5.3	69,529	-.3	395	-4.8
1983	26,560	-3.2	68,705	-1.2	387	-2.0
1984	26,732	+.6	68,947	+.4	388	+.3
1985	25,835	-3.4	70,226	+1.9	368	-5.2
1986	26,991	+4.5	69,431	-1.1	389	+5.7
1987	29,067	+7.7	70,329	+1.3	413	+6.2
1988	29,175	+.4	72,471	+3.0	403	-2.4
1989	30,452	+4.4	75,321	+3.9	404	+.2

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[1] Resident abortion figures for 1974 through 1977 are estimates derived from occurrence abortion counts for those years. The occurrence counts were discounted by 11.14 percent on the basis of the 1978 ratio of residents to occurrences (i.e., 88.86 percent of the total abortions reported in 1978 were to Washington State Residents). Estimates are not the same as those published in the 1978 and 1979 reports.

[2] Number of resident abortions per 1,000 resident live births.

SHABB4-R003

Table 52

Reported Pregnancy Outcomes with Percents by Age of Patient, Washington State Residents 1989

Age of Patient	Abortions		Fetal Deaths		Live Births		Total Reported Pregnancies
Totals	30,452	(28.7%)	387	(.4%)	75,321	(71.0%)	106,160
Under 15	181	(61.4%)	3	(1.0%)	111	(37.6%)	295
15-17	2,679	(50.9%)	22	(.4%)	2,558	(48.6%)	5,259
18-19	4,606	(45.9%)	33	(.3%)	5,388	(53.7%)	10,027
20-24	9,631	(32.8%)	76	(.3%)	19,612	(66.9%)	29,319
25-29	6,783	(22.0%)	122	(.4%)	23,875	(77.6%)	30,780
30-34	3,991	(19.3%)	70	(.3%)	16,629	(80.4%)	20,690
35-39	1,972	(24.5%)	35	(.4%)	6,049	(75.1%)	8,056
40-44	558	(38.4%)	6	(.4%)	889	(61.2%)	1,453
45 & Over	27	(41.5%)			38	(58.5%)	65
Unknown	24	(11.1%)	20	(9.3%)	172	(79.6%)	216

SHABB4-R004

Table 53

Age Group Specific Fertility Rate, Abortion Rate, and Abortion Ratio, Washington State Residents 1989

Age of Patient	Female Population[1]	Fertility Rate[2]	Abortion Rate[3]	Abortion Ratio[4]
10-14	150,729	.7	1.2	1,631
15-19	156,223	50.9	46.6	917
15-17	93,057	27.5	28.8	1,047
18-19	63,166	85.3	72.9	855
20-24	163,322	120.1	59.0	491
25-29	189,899	125.7	35.7	284
30-34	204,024	81.5	19.6	240
35-39	201,588	30.0	9.8	326
40-44	176,987	5.0	3.2	628
45-49	132,125	.3	.2	743
15-44	1,092,043	68.7	27.7	403

[1] 1989 estimates from Office of Financial Management.

[2] Resident live births for specific age group per 1,000 female population in that age group.

[3] Resident abortions for specific age group per 1,000 female population in that age group.

[4] Resident abortions for specific age group per 1,000 resident live births for that age group.

SHABB4-R007

Table 54

Previous Live Births by Age of Patient, Washington State Residents 1989

Age of Patient	Total	0	1	2	3	4	Over 4	Unknown
State Total	30,452	17,200	5,366	3,942	1,439	417	200	1,888
Under 15	181	165	3	1				12
15-17	2,679	2,293	175	26	3			182
18-19	4,606	3,549	571	143	24	2		317
20-24	9,631	5,716	1,960	1,017	250	44	15	629
25-29	6,783	3,027	1,443	1,279	481	121	55	377
30-34	3,991	1,560	791	878	359	130	52	221
35-39	1,972	711	342	449	227	80	52	111
40-44	558	160	73	143	88	35	22	37
45 & Over	27	9	4	4	2	4	3	1
Unknown	24	10	4	2	5	1	1	1

SHABB4-R006

Table 55

Previous Induced Abortions by Age of Patient, Washington State Residents 1989

Age of Patient	Total	0	1	2	3	4	Over 4	Unknown
State Total	30,452	15,790	7,769	3,097	1,166	439	295	1,896
Under 15	181	163	5	1				12
15-17	2,679	2,157	297	35	7			183
18-19	4,606	3,121	940	178	42	4	1	320
20-24	9,631	4,816	2,692	999	325	107	65	627
25-29	6,783	2,761	2,008	960	397	181	102	374
30-34	3,991	1,555	1,144	606	275	98	89	224
35-39	1,972	875	546	261	103	44	29	114
40-44	558	313	125	52	16	5	8	39
45 & Over	27	16	4	3	1		1	2
Unknown	24	13	8	2				1

SHABB4-R005

Table 56

Induced Abortions by Age of Patient by Gestation of Pregnancy, Washington State Residents 1989

Weeks Gestation	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Total	30,452	181	2,679	4,606	9,631	6,783	3,991	1,972	558	27	24
Under 9	17,964	87	1,232	2,437	5,703	4,269	2,534	1,299	372	19	12
9-12	9,822	65	1,067	1,668	3,081	2,023	1,206	554	145	4	9
13-15	1,241	14	180	217	408	232	115	56	15	3	1
16-19	970	7	141	182	304	175	96	44	19	1	1
20 & Over	422	7	58	94	130	73	36	17	7		
Unknown	33	1	1	8	5	11	4	2			1

SHABB4-R008

Table 57

Abortion Procedures by Gestation of Pregnancy, Washington State Occurrences 1989

Type of Procedure	Total	< 9 Weeks	9-12 Weeks	13-15 Weeks	16-19 Weeks	20+ Weeks	Unknown
State Total	30,916	18,456	9,606	1,270	1,053	514	17
Suction Curettage	28,232	18,381	9,481	321	26	6	17
Dilatation and Evacuation (D&E)	2,570	65	120	940	971	474	
Sharp Curettage	15	8	4	2	1		
Saline	10			1	1	8	
Prostaglandin	79			5	51	23	
Hysterotomy/Hysterectomy	4	1		1	2		
Other	5		1		1	3	
Unknown	1	1					

SHABB4-R012

Table 58

Abortions with Complications by Procedure by Gestation of Pregnancy, Washington State Occurrences 1989

Type of Procedure	Total	< 9 Weeks	9-12 Weeks	13-15 Weeks	16-19 Weeks	20+ Weeks	Unknown
State Total	160	79	49	14	14	4	
Rate[1]	5.2	4.3	5.1	11.0	13.3	7.8	
Suction Curettage	125	76	44	3	2		
Rate[1]	4.4	4.1	4.6	9.3	76.9		
Dilatation and Evacuation (D&E)	22	2	5	11	4		
Rate[1]	8.6	30.8	41.7	11.7	4.1		
Sharp Curettage	2	1			1		
Rate[1]	133.3	125.0			1000.0		
Saline	1					1	
Rate[1]	100.0					125.0	
Prostaglandin	8				5	3	
Rate[1]	101.3				98.0	130.4	
Hysterotomy/Hysterectomy	1				1		
Rate[1]	250.0				500.0		
Other	1				1		
Rate[1]	200.0				1000.0		

SHABB4-R010

Table 59

Induced Abortions with Complications by Type by Gestation of Pregnancy, Washington State Occurrences 1989

Type of Complication	Total[2]	< 9 Weeks	9-12 Weeks	13-15 Weeks	16-19 Weeks	20+ Weeks	Unknown
State Total	160	79	49	14	14	4	0
Rate[1]	5.2	4.3	5.1	11.0	13.3	7.8	
Hemorrhage	17	1	5	5	5	1	
Rate[1]	.5	.1	.5	3.9	4.7	1.9	
Infection	29	17	9	3			
Rate[1]	.9	.9	.9	2.4			
Uterine Perforation	6	3	3				
Rate[1]	.2	.2	.3				
Cervical Laceration	4	2		2			
Rate[1]	.1	.1		1.6			
Retained Products	62	34	18	2	5	3	
Rate[1]	2.0	1.8	1.9	1.6	4.7	5.8	
Failed Abortion	16	11	5				
Rate[1]	.5	.6	.5				
Other Complications	12	7	3	1	1		
Rate[1]	.4	.4	.3	.8	.9		
Multiple Complications	14	4	6	1	3		
Rate[1]	.5	.2	.6	.8	2.8		

[1] Complications per 1,000 procedures.

[2] Total number of patients with complications was 160. Total number of complications was 174.

SHABA7-R110

Table 60. Induced Abortion Intercounty Travel Patterns

Occurrence → Residence ↓	Adams	Asotin	Benton	Chelan	Clallam	Clark	Columbia	Cowlitz	Douglas	Ferry	Franklin	Garfield	Grant	Grays Harbor	Island	Jefferson	King
Adams	▨																1
Asotin		▨															4
Benton			▨														21
Chelan				▨													108
Clallam					5										1		186
Clark						345											27
Columbia							▨										
Cowlitz						31		▨									34
Douglas									▨								20
Ferry										▨							
Franklin											▨						2
Garfield												▨					
Grant													▨				16
Grays Harbor														▨			116
Island															120		103
Jefferson															3	▨	51
King						1											12688
Kitsap															1		834
Kittitas																	53
Klickitat						4											1
Lewis																	69
Lincoln																	1
Mason																	47
Okanogan																	35
Pacific						4											13
Pend Oreille																	
Pierce																	1592
San Juan																	36
Skagit															4		188
Skamania						1											
Snohomish																	2050
Spokane																	75
Stevens																	2
Thurston																	294
Wahkiakum																	1
Walla Walla																	12
Whatcom																	148
Whitman																	31
Yakima																	40
County Unknown																	115
Out-of-State						62									1		447
Non-US																	349

Residence and Occurrence, Washington State 1989

Kitsap	Kittitas	Klickitat	Lewis	Lincoln	Mason	Okanogan	Pacific	Pend Oreille	Pierce	San Juan	Skagit	Skamania	Snohomish	Spokane	Stevens	Thurston	Wahkiakum	Walla Walla	Whatcom	Whitman	Yakima	Out-of-State
														6							29	
														51							10	12
									3					6							490	9
									1					1					1		155	
									9							3					1	2
									3							1						753
														1							7	3
									2				1			2						244
														1							44	
														15							3	1
									1												155	3
														3								
									2					24							147	2
									30							163						2
									2		1		9						7			
									5													
									79				61	1		3			5		9	13
▨									155				2			4						2
	3								2												94	
		3																			11	24
			▨						34							88					1	11
				▨										17							1	
					▨				16							66						
						▨			1					24							51	1
							▨		4							18						23
								▨						25							2	
									2254				1	1		7					5	8
										▨	1								19			
									2		21		53						98			
												▨										11
									8		1		698			1			3		3	
									3					1730							89	14
														79	▨						1	
									115							600					2	6
									1								▨					8
									2					5				▨			152	10
									2				15						422			
									3					88						▨	41	67
									4					2					1		930	6
																						45
									9					313		2			12		149	
									2					27					353		18	

Table 61

Live Births and Abortions with Rate and Ratio Indicators by Patient's Place of Residence, Washington State 1989

County	Female Population[1]	Live Births[2]	Abortions[2]	Abortion Ratio[3]	Abortion Rate[4]	Fertility Rate[5]
State Total	1,092,043	75,000	30,220	403	28	69
Adams	2,882	250	36	144	12	87
Asotin	3,764	254	76	299	20	67
Benton	25,093	1,795	521	290	21	72
Chelan	10,104	887	264	298	26	88
Clallam	11,344	721	204	283	18	64
Clark	52,374	3,677	1,114	303	21	70
Columbia	737	49	11	224	15	66
Cowlitz	18,459	1,295	312	241	17	70
Douglas	5,793	376	63	168	11	65
Ferry	1,334	77	19	247	14	58
Franklin	7,327	781	157	201	21	107
Garfield	402	26	2	77	5	65
Grant	10,907	911	189	207	17	84
Grays Harbor	13,372	907	309	341	23	68
Island	11,851	940	241	256	20	79
Jefferson	3,760	196	59	301	16	52
King	356,624	22,240	12,785	575	36	62
Kitsap	40,613	3,066	990	323	24	75
Kittitas	6,391	313	151	482	24	49
Klickitat	3,480	239	42	176	12	69
Lewis	11,985	883	200	227	17	74
Lincoln	1,688	96	19	198	11	57
Mason	7,418	448	129	288	17	60
Okanogan	6,720	508	109	215	16	76
Pacific	3,169	230	62	270	20	73
Pend Oreille	1,834	146	27	185	15	80
Pierce	130,436	9,972	3,836	385	29	76
San Juan	1,973	107	56	523	28	54
Skagit	15,556	1,155	363	314	23	74
Skamania	1,767	114	12	105	7	65
Snohomish	104,223	7,811	2,742	351	26	75
Spokane	83,289	5,413	1,900	351	23	65
Stevens	6,741	450	82	182	12	67
Thurston	37,019	2,243	1,009	450	27	61
Wahkiakum	673	35	10	286	15	52
Walla Walla	10,396	613	180	294	17	59
Whatcom	29,642	1,732	584	337	20	58
Whitman	10,582	393	227	578	21	37
Yakima	40,321	3,651	970	266	24	91
Unknown			158			

[1] Women aged 15-44; 1989 estimates from Office of Financial Management.
[2] Women aged 15-44.
[3] Induced abortions per 1,000 resident live births, women aged 15-44.
[4] Induced abortions per 1,000 female population aged 15-44.
[5] Live births per 1,000 female population aged 15-44.

SHABB4-R002

Table 62

Induced Abortions by Age of Patient by County of Residence, Washington State 1989

County	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Totals	30,452	181	2,679	4,606	9,631	6,783	3,991	1,972	558	27	24
Adams	36		6	4	9	9	3	2	3		
Asotin	77	1	5	14	30	16	7	2	2		
Benton	529	6	54	82	159	123	59	37	7	1	1
Chelan	266	1	24	40	73	62	43	15	7		1
Clallam	207	3	24	41	51	44	24	16	4		
Clark	1,129	9	111	167	368	249	140	66	13	1	5
Columbia	11		1	3	5		1	1			
Cowlitz	314	2	43	63	107	46	30	19	4		
Douglas	65		8	16	19	10	4	4	2	1	1
Ferry	19		2	3	2	4	6	1	1		
Franklin	161	2	20	29	45	32	20	7	4		2
Garfield	3	1	1		1						
Grant	191	2	21	32	53	40	26	12	5		
Grays Harbor	311	2	37	61	85	64	40	16	6		
Island	242		25	30	69	59	41	10	7	1	
Jefferson	59		4	7	16	14	6	12			
King	12,860	60	986	1,728	4,039	2,976	1,848	943	265	12	3
Kitsap	998	6	99	156	283	229	126	76	21	2	
Kittitas	152	1	9	34	62	19	14	8	5		
Klickitat	43		3	10	13	8	4	3	1		1
Lewis	203	2	22	37	55	57	19	8	2	1	
Lincoln	19			6	3	5	2	3			
Mason	129		15	25	44	16	13	12	4		
Okanogan	112	3	9	20	28	28	11	10	3		
Pacific	62		10	9	18	14	6	5			
Pend Oreille	27		9	5	3	7	2	1			
Pierce	3,868	31	352	609	1,309	870	455	194	47	1	
San Juan	56		3	4	13	11	12	12	1		
Skagit	366	2	39	70	121	54	55	16	8	1	
Skamania	12		3	2	3	2		2			
Snohomish	2,764	19	251	399	813	692	361	180	46	1	2
Spokane	1,911	9	179	331	662	384	213	102	29	2	
Stevens	82		11	11	25	16	9	7	3		
Thurston	1,017	7	95	174	333	195	138	53	21	1	
Wahkiakum	10		3	4	2		1				
Walla Walla	181		6	32	77	39	17	6	3	1	
Whatcom	587	2	46	92	196	128	78	33	11		1
Whitman	230	1	10	68	83	37	19	9	1	1	1
Yakima	983	8	118	158	320	192	115	54	13		5
Unknown	160	1	15	30	34	32	23	15	9		1

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Table 63

Second Trimester Abortions by Patient's Age Group by County of Residence, Washington State 1989

County	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Totals	2,631	28	379	493	842	478	247	117	41	4	2
Adams	9			1	4	1		2	1		
Asotin	11		1	1	7	2					
Benton	57		11	10	23	8	3	2			
Chelan	36		2	7	16	6	3	1	1		
Clallam	26		6	8	3	3	4	2			
Clark	97	2	13	26	25	18	9	2	2		
Columbia	3		1	1	1						
Cowlitz	40		7	10	19	3	1				
Douglas	13		1	4	2	4	1			1	
Ferry											
Franklin	15		4	1	5	3	1	1			
Garfield											
Grant	23		4	1	10	5	2	1			
Grays Harbor	33	1	6	5	14	3	3		1		
Island	8		2	1	1		3		1		
Jefferson	4				1	3					
King	923	7	128	156	297	168	100	43	21	3	
Kitsap	78	1	11	13	21	16	7	7	2		
Kittitas	17		1	4	6	3	2		1		
Klickitat	8			1	4	2					1
Lewis	30		5	7	12	4	2				
Lincoln	2			2							
Mason	10		1	2	1	3	2	1			
Okanogan	15	1	1	2	2	6	1	1	1		
Pacific	10		1	2	4	1	1	1			
Pend Oreille	1		1								
Pierce	540	8	75	97	178	107	47	23	5		
San Juan	1					1					
Skagit	34		4	7	11	3	5	3	1		
Skamania	3		1	1	1						
Snohomish	186	3	24	30	64	37	16	11	1		
Spokane	94		21	27	19	16	6	5			
Stevens	9		1	1	2	3	2				
Thurston	100	2	16	27	24	17	8	4	2		
Wahkiakum	3		1	1			1				
Walla Walla	18		1	3	8	4		1	1		
Whatcom	30	1	4	3	13	4	3	2			
Whitman	8			5	2			1			
Yakima	131	2	24	24	40	24	13	3			1
Unknown	5			2	2		1				

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Table 64

Repeat Abortions by Patient's Age Group by County of Residence, Washington State 1989[1]

County	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Totals	12,766	6	339	1,165	4,188	3,648	2,212	983	206	9	10
Adams	13				4	5	1		3		
Asotin	6				5	1					
Benton	219		4	22	77	69	29	13	4		1
Chelan	110		3	5	28	40	25	9			
Clallam	86		2	11	23	22	15	12	1		
Clark	510	1	13	39	168	159	84	38	6		2
Columbia	3		1		1		1				
Cowlitz	113		3	13	46	25	12	12	2		
Douglas	22		1	2	8	7	1	2	1		
Ferry	2					1	1				
Franklin	73		3	9	24	18	13	3	1		2
Garfield											
Grant	68		1	2	16	29	13	5	2		
Grays Harbor	134		4	20	37	41	20	10	2		
Island	87		3	5	18	31	26	1	2	1	
Jefferson	25				6	8	4	7			
King	5,809	2	139	502	1,896	1,638	1,056	466	104	5	1
Kitsap	449		9	50	118	136	81	46	8	1	
Kittitas	63		1	8	27	14	9	3	1		
Klickitat	15			2	4	5	3		1		
Lewis	78		1	7	22	27	14	7			
Lincoln	1							1			
Mason	57		3	6	25	5	11	5	2		
Okanogan	37			3	12	11	4	7			
Pacific	27		2	3	11	7	1	3			
Pend Oreille	2			1		1					
Pierce	1,750	1	55	180	630	490	269	105	20		
San Juan	35		1	1	7	7	9	10			
Skagit	160		5	15	64	31	38	4	2	1	
Skamania	4			1	1	1		1			
Snohomish	1,353	1	40	121	403	429	226	116	15	1	1
Spokane	173		2	17	61	52	30	9	2		
Stevens	5				1	2	1	1			
Thurston	432	1	18	47	146	102	79	26	13		
Wahkiakum	2				1		1				
Walla Walla	69			5	35	18	8	3			
Whatcom	284		8	28	83	89	48	22	5		1
Whitman	40			4	19	4	10	2	1		
Yakima	434		17	34	160	118	64	32	8		1
Unknown	16			2	1	5	5	2			1

[1] Number of abortions with unreported or unknown previous abortion(s) histories was 1,896.

Table 65

Pregnancy 0utcome with Rates[1] by Selected Patient Age Groups by Place of Residence, Washington State 1989

County and City	Ages 15-44 Total	Ages 15-44 Rate	Ages 10-14 Total	Ages 10-14 Rate	Ages 15-17 Total	Ages 15-17 Rate	Ages 18-19 Total	Ages 18-19 Rate
State Totals								
Live Births	75000	68.7	111	.7	2558	27.5	5388	65.3
Fetal Deaths	364	.3	3		22	.2	33	.5
Abortions[2]	30220	27.7	181	1.2	2679	28.8	4606	72.9
Total Pregnancies	105584	96.7	295	1.9	5259	56.5	10027	138.7
Adams								
Live Births	250	86.7	1	1.8	7	22.7	15	82.0
Fetal Deaths	4	1.4			1	3.2		
Abortions	36	12.5			6	19.5	4	21.9
Total Pregnancies	290	100.6	1	1.8	14	45.4	19	103.9
Asotin								
Live Births	254	67.5	1	1.6	11	32.6	36	166.7
Fetal Deaths	1	.3						
Abortions	76	20.2	1	1.6	5	14.8	14	64.8
Total Pregnancies	331	88.0	2	3.2	16	47.4	50	231.5
Benton								
Live Births	1795	71.5	1	.3	61	28.6	148	105.1
Fetal Deaths	7	.3					2	1.4
Abortions	521	20.8	6	1.6	54	25.3	82	58.2
Total Pregnancies	2323	92.6	7	1.9	115	53.9	232	164.7
Chelan								
Live Births	887	87.8	1	.7	40	44.9	71	120.3
Fetal Deaths	1	.1			1	1.1		
Abortions	264	26.1	1	.7	24	26.9	40	67.8
Total Pregnancies	1152	114.0	2	1.4	65	72.9	111	188.1
Clallam								
Live Births	721	63.6	2	1.2	29	27.9	84	125.9
Fetal Deaths	3	.3						
Abortions	204	18.0	3	1.7	24	23.1	41	61.5
Total Pregnancies	928	81.9	5	2.9	53	51.0	125	187.4
Clark								
Live Births	3677	70.2	2	.2	123	26.7	289	100.6
Fetal Deaths	24	.5			1	.2	3	1.0
Abortions	1114	21.3	9	1.1	111	24.1	167	58.1
Total Pregnancies	4815	92.0	11	1.3	235	51.0	459	159.7
Columbia								
Live Births	49	66.5					6	171.4
Fetal Deaths	1	1.4						
Abortions	11	14.9			1	15.2	3	85.7
Total Pregnancies	61	82.8			1	15.2	9	257.1
Cowlitz								
Live Births	1290	70.2	2	.7	61	37.2	144	135.8
Fetal Deaths	8	.4					3	2.8
Abortions	312	16.9	2	.7	43	26.2	63	59.3
Total Pregnancies	1610	87.5	4	1.4	104	63.4	210	197.7
Douglas								
Live Births	376	64.9			22	42.3	30	92.6
Fetal Deaths	4	.7	1	1.2	1	1.9		
Abortions	63	10.9			8	15.4	16	49.4
Total Pregnancies	443	76.5	1	1.2	31	59.6	46	142.0
Ferry								
Live Births	77	57.7			6	48.4	5	64.1
Fetal Deaths	1	.7						
Abortions	19	14.2			2	16.1	3	38.5
Total Pregnancies	97	72.6			8	64.5	8	102.6
Franklin								
Live Births	781	106.6	5	4.4	51	75.4	87	185.9
Fetal Deaths	3	.4						
Abortions	157	21.4	2	1.8	20	29.6	29	62.0
Total Pregnancies	941	128.4	7	6.2	71	105.0	116	247.9
Garfield								
Live Births	26	64.7					2	87.0
Fetal Deaths								
Abortions	2	5.0	1	15.2	1	25.6		
Total Pregnancies	28	69.7	1	15.2	1	25.6	2	87.0
Grant								
Live Births	911	83.5	4	2.2	41	37.0	92	132.9
Fetal Deaths	4	.4			2	1.8	1	1.4
Abortions	189	17.3	2	1.1	21	19.0	32	46.2
Total Pregnancies	1104	101.2	6	3.3	64	57.8	125	180.5
Grays Harbor								
Live Births	907	67.8	1	.5	60	48.2	84	105.0
Fetal Deaths	5	.4			1	.8		
Abortions	309	23.1	2	.9	37	29.7	61	76.3
Total Pregnancies	1221	91.3	3	1.4	98	78.7	145	181.3
Island								
Live Births	940	79.3			16	16.6	55	86.2
Fetal Deaths	5	.4						
Abortions	241	20.3			25	26.0	30	47.0
Total Pregnancies	1186	100.0			41	42.6	85	133.2
Jefferson								
Live Births	196	52.1	1	1.7	8	25.6	12	64.9
Fetal Deaths	1	.3						
Abortions	59	15.7			4	12.8	7	37.8
Total Pregnancies	256	68.1	1	1.7	12	38.4	19	102.7
King								
Live Births	22240	62.4	25	.6	503	18.6	1010	52.8
Fetal Deaths	93	.3	1		5	.2	4	.2
Abortions	12785	35.9	60	1.4	986	36.5	1728	90.4
Total Pregnancies	35118	98.6	86	2.0	1494	55.3	2742	143.4
Kitsap								
Live Births	3066	75.5	2	.3	105	31.4	217	101.2
Fetal Deaths	14	.3					2	.9
Abortions	990	24.4	6	1.0	99	29.6	156	72.8
Total Pregnancies	4070	100.2	8	1.3	204	61.0	375	174.9
Kittitas								
Live Births	313	49.0			12	17.8	20	36.7
Fetal Deaths	1	.2						
Abortions	151	23.6	1	1.5	9	13.3	34	62.4
Total Pregnancies	465	72.8	1	1.5	21	31.1	54	99.1
Klickitat								
Live Births	239	68.7			18	56.4	20	105.3
Fetal Deaths	4	1.1					1	5.3
Abortions	42	12.1			3	9.4	10	52.6
Total Pregnancies	285	81.9			21	65.8	31	163.2
Lewis								
Live Births	863	73.7	1	.5	44	36.6	122	165.5
Fetal Deaths	4	.3						
Abortions	200	16.7	2	1.0	22	18.3	37	50.2
Total Pregnancies	1067	90.7	3	1.5	66	54.9	159	215.7
Lincoln								
Live Births	96	56.9			1	6.1	7	75.3
Fetal Deaths								
Abortions	19	11.3					6	64.5
Total Pregnancies	115	68.2			1	6.1	13	139.8
Mason								
Live Births	448	60.4			29	41.4	46	104.1
Fetal Deaths	2	.3						
Abortions	129	17.4			15	21.4	25	56.6
Total Pregnancies	579	78.1			44	62.8	71	160.7
Okanogan								
Live Births	508	75.6	2	1.8	30	49.9	50	135.5
Fetal Deaths	2	.3			1	1.7		
Abortions	109	16.2	3	2.7	9	15.0	20	54.2
Total Pregnancies	619	92.1	5	4.5	40	66.6	70	189.7
Pacific								
Live Births	230	72.6	1	1.9	11	37.0	22	118.9
Fetal Deaths								
Abortions	62	19.6			10	33.7	9	48.6
Total Pregnancies	292	92.2	1	1.9	21	70.7	31	167.5
Pend Oreille								
Live Births	146	79.6			9	48.4	20	194.2
Fetal Deaths								
Abortions	27	14.7			9	48.4	5	48.5
Total Pregnancies	173	94.3			18	96.8	25	242.7
Pierce								
Live Births	9972	76.5	17	.9	371	31.9	815	99.8
Fetal Deaths	51	.4					5	.6
Abortions	3836	29.4	31	1.7	352	30.3	609	74.6
Total Pregnancies	13859	106.3	48	2.6	723	62.2	1429	175.1
San Juan								
Live Births	107	54.2			1	8.1	3	40.5
Fetal Deaths								
Abortions	56	28.4			3	24.2	4	54.1
Total Pregnancies	163	82.6			4	32.3	7	94.6
Skagit								
Live Births	1155	74.2	4	1.8	43	30.8	100	111.6
Fetal Deaths	4	.3						
Abortions	363	23.3	2	.9	39	27.9	70	78.1
Total Pregnancies	1522	97.8	6	2.7	82	58.7	170	189.7
Skamania								
Live Births	114	64.5			9	54.2	10	98.0
Fetal Deaths								
Abortions	12	6.8			3	18.1	2	19.6
Total Pregnancies	126	71.3			12	72.3	12	117.6
Snohomish								
Live Births	7811	74.9	4	.3	216	24.5	493	86.7
Fetal Deaths	33	.3			2	.2	4	.7
Abortions	2742	26.3	19	1.3	251	28.5	399	70.2
Total Pregnancies	10586	101.5	23	1.6	469	53.2	896	157.6
Spokane								
Live Births	5413	65.0	7	.6	197	26.0	466	88.5
Fetal Deaths	30	.4			2	.3	4	.8
Abortions	1900	22.8	9	.8	179	23.7	331	62.9
Total Pregnancies	7343	88.2	16	1.4	378	50.0	801	152.2
Stevens								
Live Births	450	66.8			21	36.2	55	165.7
Fetal Deaths	5	.7			1	1.7		
Abortions	82	12.2			11	19.0	11	33.1
Total Pregnancies	537	79.7			33	56.9	66	198.8
Thurston								
Live Births	2243	60.6	5	.9	92	29.1	195	95.4
Fetal Deaths	6	.2						
Abortions	1009	27.3	7	1.3	95	30.1	174	85.1
Total Pregnancies	3258	88.1	12	2.2	187	59.2	369	180.5
Wahkiakum								
Live Births	35	52.0	2	16.4	1	14.9	4	105.3
Fetal Deaths								
Abortions	10	14.9			3	44.8	4	105.3
Total Pregnancies	45	66.9	2	16.4	4	59.7	8	210.6
Walla Walla								
Live Births	613	59.0	2	1.4	29	25.9	58	74.2
Fetal Deaths	4	.4	1	.7	1	.9		
Abortions	180	17.3			6	5.4	32	40.9
Total Pregnancies	797	76.7	3	2.1	36	32.2	90	115.1
Whatcom								
Live Births	1732	58.4	3	.8	49	18.5	112	58.6
Fetal Deaths	7	.2						
Abortions	584	19.7	2	.5	46	17.4	92	48.8
Total Pregnancies	2323	78.3	5	1.3	95	35.9	204	106.4
Whitman								
Live Births	393	37.1			1	.8	18	15.5
Fetal Deaths	5	.5					1	.9
Abortions	227	21.5	1	1.2	10	7.8	68	58.5
Total Pregnancies	625	59.1	1	1.2	11	8.6	87	75.0
Yakima								
Live Births	3651	90.5	15	2.3	230	57.5	385	146.8
Fetal Deaths	27	.7			3	.7	3	1.2
Abortions	970	24.1	8	1.2	118	29.5	158	63.5
Total Pregnancies	4648	115.3	23	3.5	351	87.7	546	211.5

[1] Number of events (live births, fetal deaths, abortions, total reported pregnancies) per 1,000 female population in each age group.

[2] Total abortions includes 158 for which county of residence was unknown.

Table 66

Resident Abortion Rates[1] with Ranks for Washington State Counties, 1985-1989

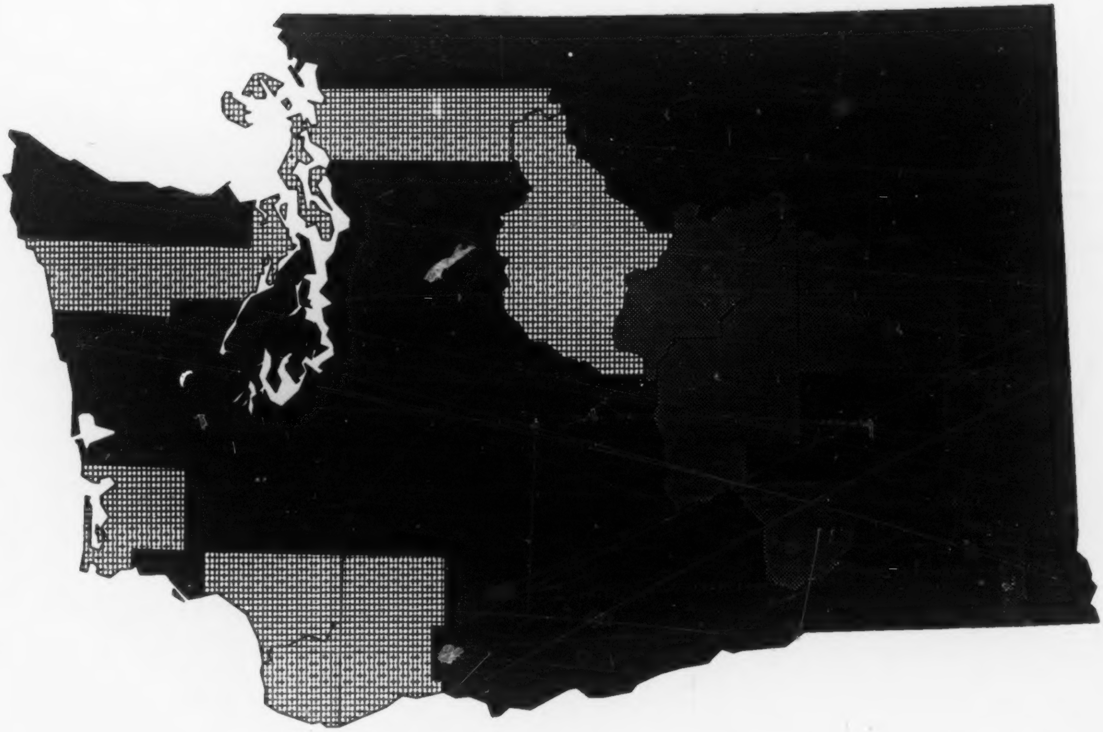
	1985		1986		1987		1988		1989	
Rank	County	Rate	County	Rate	County	Rate	County	Rate	County	Rate
1	King	32.1	King	34.4	King	37.0	King	35.8	King	35.9
2	Kittitas	27.5	Pierce	28.3	Pierce	29.2	Pierce	29.0	Pierce	29.4
3	Pierce	27.2	Thurston	26.5	Chelan	27.2	Chelan	28.6	San Juan	28.4
4	Thurston	26.9	Kittitas	25.7	Thurston	25.8	San Juan	27.5	Thurston	27.3
5	Chelan	26.4	Franklin	24.5	Snohomish	25.4	Thurston	26.4	Snohomish	26.3
6	Adams	24.6	Chelan	24.4	Grays Har-	24.9	Kittitas	24.4	Chelan	26.1
7	Clark	23.8	Grant	24.1	Kittitas	24.6	Snohomish	24.2	Kitsap	24.4
8	Walla Walla	23.7	Spokane	22.9	Kitsap	23.3	Kitsap	23.6	Yakima	24.1
9	Franklin	23.5	Grays Harbor	22.8	Franklin	22.7	Franklin	23.4	Kittitas	23.6
10	Grays Harbor	22.9	Benton	22.0	Spokane	22.5	Spokane	22.9	Skagit	23.3
10	Spokane*	22.9	Yakima	21.0	Skagit	22.2	Yakima	22.6	Grays Harbor	23.1
12	Grant	21.6	Walla Walla	20.3	Yakima	22.1	Grays Harbor	21.0	Spokane	22.8
13	Benton	21.2	Skagit	19.5	Grant	21.5	Skagit*	21.0	Whitman	21.5
14	Whatcom	20.5	Kitsap	19.3	Benton	20.8	Benton	20.1	Franklin	21.4
14	Yakima*	20.5	Clark	19.2	San Juan	20.6	Clark	19.8	Clark	21.3
16	Columbia	20.2	Okanogan	18.8	Walla Walla	19.7	Island*	19.8	Benton	20.8
17	Asotin	19.4	Snohomish	18.7	Whatcom	19.0	Walla Walla	19.3	Island	20.3
18	Lewis	19.2	Whatcom	18.3	Clark	18.2	Okanogan	19.2	Asotin	20.2
19	Island	19.1	Whitman	18.0	Island	16.7	Whatcom*	19.2	Whatcom	19.7
20	Skagit	18.3	Columbia	17.5	Lewis	16.3	Columbia	18.9	Pacific	19.6
21	Kitsap	17.1	Lewis	17.2	Okanogan	16.2	Grant	18.6	Clallam	18.0
22	Whitman	17.0	Asotin	17.0	Mason	15.1	Pacific*	18.6	Mason	17.4
23	Snohomish	16.2	Island	16.8	Pend Oreille*	15.1	Pend Oreille	17.0	Grant	17.3
24	Mason	15.1	Adams	16.5	Garfield	14.3	Asotin	16.8	Walla Walla*	17.3
24	Pacific*	15.1	Mason*	16.5	Whitman	14.1	Whitman*	16.8	Cowlitz	16.9
26	Pend Oreille	14.8	San Juan	14.2	Ferry	13.6	Lewis	15.6	Lewis	16.7
27	Okanogan	13.8	Ferry	12.6	Columbia	13.5	Skamania	15.4	Okanogan	16.2
28	Douglas	12.3	Lincoln	11.7	Asotin	13.1	Mason	15.3	Jefferson	15.7
28	Stevens*	12.3	Pend Oreille	11.7	Cowlitz	12.9	Adams	15.2	Columbia	14.9
30	Skamania	12.0	Cowlitz	11.3	Wahkiakum*	12.9	Cowlitz	15.0	Wahkiakum*	14.9
31	Cowlitz	10.7	Pacific	11.2	Pacific	12.7	Clallam	13.7	Pend Oreille	14.7
32	San Juan	10.4	Klickitat	11.1	Adams	12.5	Stevens	12.4	Ferry	14.2
33	Klickitat	10.2	Skamania	11.0	Lincoln	12.2	Ferry	10.4	Adams	12.5
34	Ferry	9.6	Stevens	9.4	Stevens	12.0	Klickitat	9.8	Stevens	12.2
35	Clallam	8.6	Douglas	9.3	Douglas	11.1	Douglas	9.0	Klickitat	12.1
36	Lincoln	8.5	Clallam	8.8	Skamania	11.0	Jefferson	8.7	Lincoln	11.3
37	Jefferson	7.5	Jefferson	5.3	Klickitat	9.8	Lincoln	8.0	Douglas	10.9
38	Wahkiakum	7.0	Garfield	4.6	Clallam	9.5	Wahkiakum	2.9	Skamania	6.8
39	Garfield	6.9	Wahkiakum	1.4	Jefferson	8.6	Garfield		Garfield	5.0

[1] Abortions per 1,000 female population aged 15-44.

*Tied in rank with county or counties above.

MARRIAGES
AND
DISSOLUTIONS

Marriages



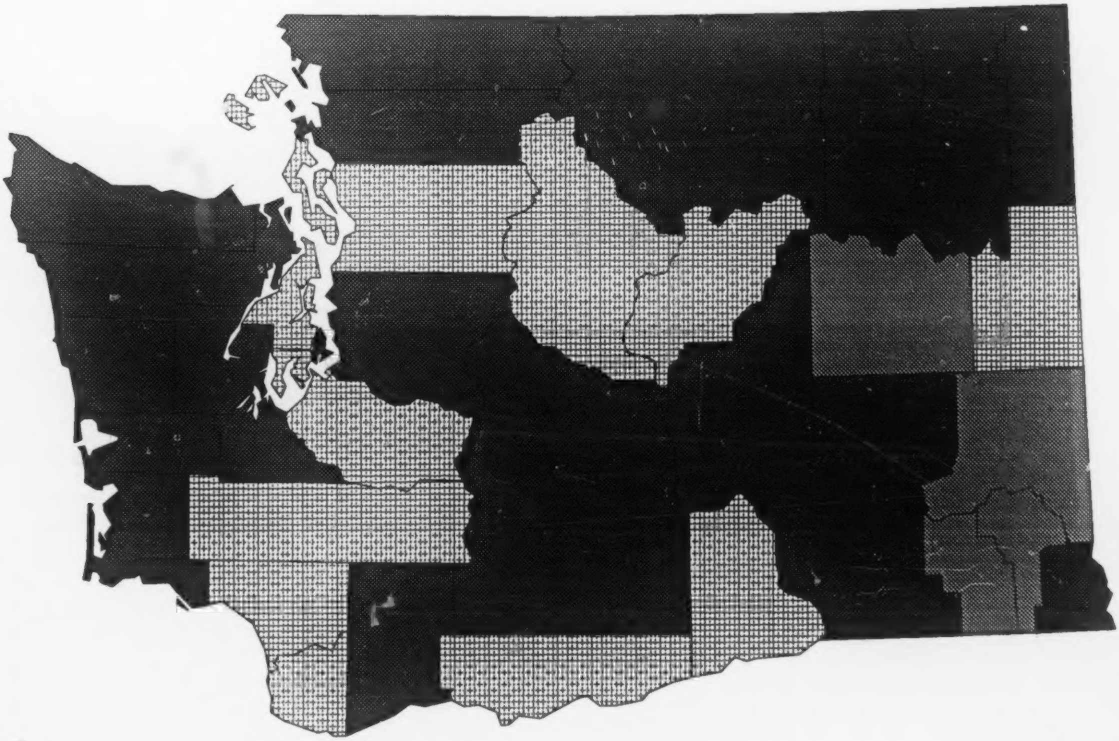
Washington State, 1989

(Occurrences)

Marriages/1,000 population

▩ 0 - 6
■ 7 - 10
▦ 11 or More

Dissolutions



Washington State, 1989

(Based on Wife's Residence)

Divorces/1,000 population

- ▨ 0 - 3
- ■ 4 - 5
- ▦ 6 or More

S02370A-HMA

Table 67

Marriage by County of Marriage by Bride and Groom Age Group, Washington State Occurrences 1989

County		Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-99	Unk
State Total	Bride	45,278	5	4,918	13,242	10,179	6,411	4,244	2,709	1,482	736	381	316	246	165	84	26	15	119
	Groom	45,278	1	1,821	11,316	11,446	7,283	4,857	3,126	1,987	1,083	744	494	417	274	150	67	30	182
Adams	Bride	103		24	39	11	9	11	4	3			1						1
	Groom	103		11	37	23	13	8	3	5		1		1					1
Asotin	Bride	121		27	30	20	18	9	5	3	5		2		2				
	Groom	121		14	40	24	10	10	8	4	3	3	3		2				
Benton	Bride	940		151	292	206	106	83	36	23	18	7	6	3	7	2			
	Groom	940		62	269	210	144	95	56	28	23	19	13	5	8	2	4		2
Chelan	Bride	716		99	196	155	97	68	53	15	12	3	5	4	6		1		2
	Groom	716	-	32	170	179	108	86	54	40	13	10	5	8	4	2	3		2
Clallam	Bride	521	1	68	141	100	63	38	44	21	7	10	8	8	6	3	3		
	Groom	521		24	119	114	77	44	46	25	19	7	15	10	10	7	3	1	
Clark	Bride	3,670		421	971	733	542	354	289	167	70	41	31	26	8	10	1	2	4
	Groom	3,670		165	860	844	544	429	309	170	122	79	43	39	33	14	2	2	15
Columbia	Bride	34		7	10	3	5	3	2	1	2			1					
	Groom	34		2	11	7	3	4	1	1	1	2	1		1				
Cowlitz	Bride	890		138	288	172	99	72	53	35	12	4	2	2	4	3	1		5
	Groom	890		55	275	201	113	79	66	46	21	10	3	5	3	5	1		7
Douglas	Bride	144		20	44	35	14	9	8	5	7	1	1						
	Groom	144		10	33	39	19	14	9	4	6	4	4						2
Ferry	Bride	56		8	15	10	6	5	7	3		2							
	Groom	56		4	10	11	7	9	5	3	3	1	1	2					
Franklin	Bride	197		36	67	33	25	14	7	7	5		2	1					
	Groom	197		12	66	52	17	18	13	4	3	2	5		1				4
Garfield	Bride	10		1	4	2		1	2										
	Groom	10			3	3		2		2									
Grant	Bride	329		78	106	46	37	19	23	6	2	2	5		1		2		2
	Groom	329		40	105	69	42	21	19	12	3	7	3	1	3	1	1	1	1
Grays Harbor	Bride	646		98	176	123	96	60	47	22	7	6	5	3	2	1			
	Groom	646		37	162	160	33	80	45	29	15	9	5	3	1	3	2	1	1
Island	Bride	641		115	182	133	78	60	25	21	5	9	3	5	1	2		1	1
	Groom	641		40	205	163	72	69	35	13	12	16	4	4	3	3	2		
Jefferson	Bride	261		15	49	47	48	45	23	9	7	6	6	1	1	1		1	2
	Groom	261		4	36	48	48	40	25	19	8	10	5	12	3	2			1
King	Bride	13,960	1	861	3,904	3,670	2,302	1,461	767	418	214	89	92	69	38	25	8	6	35
	Groom	13,960		262	2,868	3,923	2,684	1,666	990	615	308	206	132	118	64	42	18	9	55
Kitsap	Bride	1,853		250	588	380	237	152	112	54	25	17	8	8	5	4	3		10
	Groom	1,853		93	575	438	267	170	111	77	42	27	15	10	9	7	3	3	6
Kittitas	Bride	195		20	56	48	27	13	13	7	4	3		1	1	1		-	1
	Groom	195		9	54	47	29	13	16	9	3	6	5	2		1	1		
Klickitat	Bride	138		22	31	21	21	16	17	5	4								1
	Groom	138		13	24	24	24	15	16	11	7	1	1	1	1				
Lewis	Bride	599		133	170	107	52	50	40	18	9	5	6	6	2	1			
	Groom	599		46	189	132	79	43	45	21	12	9	6	7	9	1			
Lincoln	Bride	53		6	23	11	3	3	2	2		1		1		1			
	Groom	53		3	21	13	6	3	1		2			2		1			1
Mason	Bride	297		40	84	56	42	25	18	13	5	4	2	2	4				2
	Groom	297		15	80	60	35	37	20	14	9	8	5	1	6	2			5
Okanogan	Bride	288	1	48	86	51	31	17	23	11	6	1	5	2	3	1	1		1
	Groom	288		25	79	61	28	31	22	13	7	3	4	7	4	2	1		1
Pacific	Bride	240		19	69	34	32	28	14	12	13	4	7	1	3		1		3
	Groom	240		11	41	58	31	34	15	17	8	9	4	5	5		1		1
Pend Oreille	Bride	80		14	19	20	12	3	5	4			1	2					
	Groom	80		8	16	15	14	11	7	2	3			1	2	1			
Pierce	Bride	5,850	1	688	1,868	1,309	781	454	320	183	92	41	35	27	22	10	3	1	15
	Groom	5,850		257	1,759	1,424	857	535	349	246	144	79	56	56	25	17	8	5	33
San Juan	Bride	233		4	30	58	57	41	28	7		3	1	2	2				
	Groom	233		2	20	42	82	47	21	17	4	5	7	2	3	1			
Skagit	Bride	783	1	95	205	164	112	77	55	31	13	10	6	5	5	1	1		2
	Groom	783		36	192	182	126	84	49	42	28	12	11	12	3	4	2		
Skamania	Bride	118		18	21	21	11	14	11	7	3	4	3	1	3	1			
	Groom	118		6	15	27	20	13	8	7	3	7	3	2		3	1	3	
Snohomish	Bride	3,805		410	1,070	822	541	408	242	133	61	30	35	22	12	4		3	12
	Groom	3,805		150	854	1,000	618	430	287	176	83	69	51	43	16	7	4	3	14
Spokane	Bride	2,649		323	914	580	304	209	133	73	43	23	9	16	10	3			9
	Groom	2,649		119	772	685	397	253	151	95	61	30	37	21	19	3	2	1	3
Stevens	Bride	216		41	58	40	30	15	16	8	3	4			1				
	Groom	216		25	50	48	24	21	24	11	3	5	3		1	1			
Thurston	Bride	1,391		187	426	280	185	118	84	45	20	15	11	6	5	5		1	3
	Groom	1,391		60	384	339	203	123	96	76	37	25	9	9	10	5	7	1	7
Wahkiakum	Bride	28		5	6	4	4	3	3	1		1		1					
	Groom	28		1	11	3	3	4	1	2	1	1		1					
Walla Walla	Bride	441		49	132	97	52	37	29	20	9	5	5	3	3				
	Groom	441		26	116	112	54	51	33	13	10	12	3	3	4	3			1
Whatcom	Bride	1,119		121	326	246	152	114	64	40	15	17	7	9	3	3			2
	Groom	1,119	1	45	281	251	177	142	74	53	29	22	15	14	7	5			3
Whitman	Bride	184		13	71	40	15	12	7	1	4				1				
	Groom	184		6	53	47	20	15	12	6	2	1		2					
Yakima	Bride	1,499		245	475	291	165	123	78	48	34	13	6	8	4	2	1		6
	Groom	1,499		91	461	368	215	106	84	59	25	27	17	8	14	5	1		16

Table 68

Dissolutions, Annulments, and Separate Maintenance by County of Decree, WA State Occurrences 1989

County	Total	Dissolution	Annulment	Separate Maintenance	Not Stated
State Total	27,140	26,683	162	250	45
Adams	58	58			
Asotin	93	92	1		
Benton	655	652	1	2	
Chelan	471	464	3	4	
Clallam	308	307			1
Clark	1,417	1,394	6	15	2
Columbia	19	19			
Cowlitz	504	498	3	3	
Douglas	32	32			
Ferry	29	29			
Franklin	160	160			
Garfield	10	10			
Grant	245	244		1	
Grays Harbor	357	351	1	2	3
Island	370	366	1	3	
Jefferson	98	94	3	1	
King	7,680	7,557	32	89	2
Kitsap	1,085	1,066	4	14	1
Kittitas	83	83			
Klickitat	88	88			
Lewis	398	393		4	1
Lincoln	1,311	1,286	14	11	
Mason	120	116		2	2
Okanogan	120	119		1	
Pacific	79	77	1	1	
Pend Oreille	37	36	1		
Pierce	3,636	3,535	39	36	26
San Juan	54	54			
Skagit	425	418	5	2	
Skamania	53	53			
Snohomish	2,436	2,390	19	27	
Spokane	1,860	1,831	12	17	
Stevens	124	124			
Thurston	935	917	8	8	2
Wahkiakum	16	16			
Walla Walla	260	259		1	
Whatcom	577	566	2	6	3
Whitman	84	84			
Yakima	853	845	6	2	

Table 69

Dissolutions by County of Divorce by Husband's and Wife's Age Group, Washington State Occurrences 1989

County		Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-99	Unk
State Total	Wife	26,683		228	3,209	5,256	5,039	4,287	3,203	1,771	772	440	280	158	76	35	14	4	1,911
	Husband	26,683		39	1,767	4,584	5,039	4,405	3,589	2,469	1,310	743	452	251	147	60	27	5	1,796
Adams	Wife	58			7	13	9	7	6	8	1	1	1						5
	Husband	58			3	10	12	5	8	7	2	2	1	2					6
Asotin	Wife	92			15	21	18	17	6	5	6	1	1	1					1
	Husband	92			9	20	17	15	10	7	6	2		1	3				2
Benton	Wife	652		9	83	128	130	91	84	52	21	12	9	4	5	2			22
	Husband	652		1	47	111	131	107	78	62	44	24	12	9	7	3			18
Chelan	Wife	464		2	62	85	106	70	62	31	11	2	6	2	2	2	2		19
	Husband	464		1	24	89	92	96	56	42	24	9	4	7		1	2		17
Clallam	Wife	307		3	27	61	72	41	38	17	9	4	5	6	1	2			21
	Husband	307			12	49	61	55	47	23	15	12	5	2	7	2			17
Clark	Wife	1,394		15	179	297	235	223	198	95	31	14	14	7	6	1	1		78
	Husband	1,394		1	94	259	242	226	223	142	67	31	22	11	8	1			67
Columbia	Wife	19			3	1	3	2	5	2	2								1
	Husband	19		2	2	1	2	1	5	1	1	2	1						1
Cowlitz	Wife	498		7	62	118	100	72	67	33	8	7	6	3	1		2		12
	Husband	498		1	43	81	112	82	76	39	17	16	10	3		3	1		14
Douglas	Wife	32		1	2	8	7	5	4	2	1								2
	Husband	32			4	4	6	7	4	3		2		1					1
Ferry	Wife	29		1	3	7	6	4	2	2	1		2		1				
	Husband	29			1	4	6	6	4	3		2	1	1	1				
Franklin	Wife	160		1	26	26	43	24	17	6	2	2	1	2	1			1	8
	Husband	160		1	13	28	40	35	11	13	8	2	3	1	1	1			3
Garfield	Wife	10				3	1	1	1	1	1	1							1
	Husband	10			1	1	1	2	1	1	2			1					
Grant	Wife	244		5	38	55	36	29	29	18	7	8	3	1	2	1	1		11
	Husband	244		2	23	45	42	37	27	24	10	8	5	4	2	1	2		12
Grays Harbor	Wife	351		3	54	65	68	58	36	19	5	5	3	3	4				28
	Husband	351			24	56	71	56	43	31	15	14	7	3	4	1			26
Island	Wife	366		12	72	78	69	42	41	8	10	8	2	4	1		1		18
	Husband	366			60	88	58	48	40	24	15	3	9	4		2			15
Jefferson	Wife	94		1	7	16	23	19	15	7	1			1	2				2
	Husband	94		1	5	14	16	18	17	12	4	1	2	2					2
King	Wife	7,557		33	641	1,311	1,476	1,330	934	584	263	146	92	44	14	11	2	2	674
	Husband	7,557		7	295	1,117	1,384	1,320	1,094	768	394	236	132	85	32	16	7	3	667
Kitsap	Wife	1,066		14	164	228	193	159	129	68	23	9	2	4	3	1			69
	Husband	1,066			93	221	197	153	139	99	48	19	8	9	4	3	1		72
Kittitas	Wife	83		2	6	13	15	11	18	6	4	1	1						6
	Husband	83			4	16	10	17	15	8	1	7	1	1					3
Klickitat	Wife	88		1	10	12	26	17	8	2	4	2	1						5
	Husband	88			9	14	16	19	10	9	3	5	1						2
Lewis	Wife	393		4	70	68	63	46	38	24	22	12	8	2	1	1			34
	Husband	393		2	42	71	66	47	44	33	19	16	10	9	5				29
Lincoln	Wife	1,286		9	195	289	271	200	139	71	36	20	12	7	3	2		1	31
	Husband	1,286		1	105	259	263	227	174	95	58	23	22	10	7	5	2	1	34
Mason	Wife	116		2	7	31	20	12	21	8	4	2	2				1		6
	Husband	116		1	5	13	23	18	17	15	6	4	2	1	1		2		8
Okanogan	Wife	119		3	12	24	14	20	18	11	1	4	1						11
	Husband	119		1	7	16	23	19	12	15	8	5	2	3	1				7
Pacific	Wife	77		1	9	11	15	17	7	3	2	1	2		1	1			7
	Husband	77			5	9	16	14	11	6	5	2	2			2			5
Pend Oreille	Wife	36		1	3	5	7	8	4	3		1			1				3
	Husband	36			2	3	11	4	5	4	2	1	1	1		1			1
Pierce	Wife	3,535		36	559	835	676	494	389	166	88	34	36	17	6	4			195
	Husband	3,535		6	348	768	704	521	414	283	134	81	45	23	16	3	3		186
San Juan	Wife	54			3	8	8	6	11	8	7	2							1
	Husband	54			2	8	6	6	12	8	9	1	1			1			
Skagit	Wife	418		4	52	89	74	75	45	28	7	8	9	1	3	1	1		21
	Husband	418		1	32	67	78	73	54	37	20	8	12	6	4	1			25
Skamania	Wife	53			3	9	9	9	8	6	4	1	2						2
	Husband	53			2	6	10	6	12	4	6	5				1	1		
Snohomish	Wife	2,390		13	255	465	452	402	321	159	60	49	23	16	4	1			170
	Husband	2,390		3	125	380	446	422	336	242	131	68	43	18	15		1		160
Spokane	Wife	1,831		23	240	355	338	326	193	138	47	36	10	15	5	1	1		103
	Husband	1,831		2	150	286	388	305	235	164	93	55	40	8	10	5	3		87
Stevens	Wife	124		2	10	27	21	21	10	6	4	2	1	1					19
	Husband	124			5	18	22	27	23	4	6	5	1	1					12
Thurston	Wife	917		4	100	176	146	151	104	65	30	20	11	5	2	3			100
	Husband	917		1	50	155	148	140	115	102	45	28	24	4	6	4			96
Wahkiakum	Wife	16			4	1	3	4		1	1	2							
	Husband	16			2	2	2	2	1	1		1	3						2
Walla Walla	Wife	259		1	45	47	56	40	30	13	7	4	3		1		2		10
	Husband	259		1	18	46	65	50	31	15	10	5	4	5			2	1	8
Whatcom	Wife	566		3	57	88	66	77	52	25	17	7	4	3	2				165
	Husband	566		1	33	66	71	72	73	29	35	12	5	3	4				162
Whitman	Wife	84		1	6	18	12	15	11	12		1		1					7
	Husband	84			3	18	15	9	13	13	6			2					5
Yakima	Wife	845		11	118	164	152	142	102	58	24	11	7	8	4	1			43
	Husband	845		2	65	165	166	138	99	81	41	26	11	10	9	3			29

Table 70

Dissolutions by Total Living Children[1] by Place of Wife's Residence[2], Washington State Occurrences 1989

County	Total	Number of Children 0	1	2	3	4	5	6	7	Eight or More	Not Stated
State Total	26,683	11,870	5,601	5,607	1,839	542	157	58	11	18	980
Adams	57	14	15	17	8	2					1
Asotin	82	36	14	19	6	4					3
Benton	636	223	154	148	63	17	3	2		2	24
Chelan	344	123	83	80	27	17	3				11
Clallam	287	122	59	70	22	5	4				5
Clark	1,249	535	264	284	95	27	8	1		1	34
Columbia	13	7	2	3			1				
Cowlitz	484	205	108	110	29	7	3	2		1	19
Douglas	141	50	27	44	11	2					7
Ferry	23	11	4	4	3	1					
Franklin	150	60	33	27	17	7		2			4
Garfield	5	1		3			1				
Grant	238	103	56	54	14	4	2				5
Grays Harbor	329	141	80	62	28	8	2	1			7
Island	341	137	86	80	16	5	2	1			14
Jefferson	87	48	8	17	7	5					2
King	7,463	3,542	1,467	1,487	477	137	39	21	6	6	281
Kitsap	992	389	222	255	71	25	4				26
Kittitas	91	39	18	20	7	1		1			5
Klickitat	93	38	17	21	15		1		1		
Lewis	352	152	67	86	25	7	2	1		1	11
Lincoln	26	13	5	6	1						1
Mason	146	66	28	26	15	4		1			6
Okanogan	114	49	25	26	11			1			2
Pacific	67	33	12	15	5	1					1
Pend Oreille	44	13	11	13	6						1
Pierce	3,263	1,348	743	738	245	62	20	6			101
San Juan	56	29	6	15	3	1					2
Skagit	367	180	72	77	19	7	3		1		8
Skamania	31	11	5	6	4	4					1
Snohomish	2,414	1,081	522	512	165	49	21	1	1	2	60
Spokane	2,046	909	471	427	151	35	10	6	1	2	34
Stevens	145	55	34	36	11	4		1			4
Thurston	836	357	180	170	64	22	7	5			31
Wahkiakum	16	8	4		2	1	1				
Walla Walla	218	95	53	43	20	1		1			5
Whatcom	458	211	78	105	32	12	4	1			15
Whitman	85	41	15	17	8	2	1				1
Yakima	817	330	196	182	60	22	4	2	1	1	19
Out-of-State	1,392	783	250	218	52	25	7			2	55
Unknown	685	282	107	84	24	9	4	1			174

[1] Includes all living children regardless of age.

[2] Does not include residents who obtain dissolutions outside of Washington State.

APPENDICES

Appendix A

Definitions

Abortion - The termination (spontaneous or induced) of a pregnancy before the fetus has attained viability. Where unqualified in this report, the term refers to induced abortions.

Abortion-related Complications - Complications encountered and detected at the time pregnancy termination occurs and before the abortion report is filed.

Cervical laceration - a tear wound of the cervix which requires sutures.

Failed abortion - the products of conception fail to be expelled from the uterus after induction.

Hemorrhage - copious or excessive bleeding, clinically assessed.

Infection - inflammation of the endometrium (the mucous coat of the uterus) or elevation of body temperature over 100.4 degrees for one or more days.

Retained products - retention of some of the fetal or placental tissue in the uterus after an abortion procedure. A second procedure is required for removal.

Uterine perforation - unintentional puncture of the uterine wall which requires intervention.

Birth Weight - Weight of fetus or infant at time of delivery (normally recorded in pounds and ounces).

Fetal Death - Death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy. The death is indicated by the fact that after such expulsion or extraction the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Reporting of fetal deaths to the state is required only when the gestational period is twenty weeks or more.

Gestional Period - Number of weeks elapsed between the first day of the last menstrual period and date of delivery or date of pregnancy termination. The Abortion Reporting System relies upon the physician's estimate of gestational age. With current technology (i.e., ultrasound), accuracy is plus or minus 11 days.

Induced Abortion - The purposeful interruption of pregnancy, irrespective of the duration of pregnancy, with the intention other than to produce a live born infant or to remove a dead fetus, the result of which is not a live birth. Procedures for false pregnancy, ectopic pregnancy, and missed abortion (dead ovum retained in uterus in intended pregnancy) are not included.

Induced Abortion Procedures:

Dilatation And Evacuation (D&E) - dilatation of the cervical canal by means of laminaria tents (sterile dried seaweed) until the cervical opening is large enough to allow removal of the uterine contents by means of a sponge forceps or some other specially designed instrument.

Hysterectomy - removal of the uterus by surgical procedure either with the fetus inside or after the fetus is removed; usually performed when a pathological condition of the uterus, such as fibroid tumors, warrants its removal, or when a woman desires sterilization.

Hysterotomy - surgical entry into the uterus, as in a Caesarean section, to remove a fetus too immature to survive, even with extraordinary life support measures; usually performed only if other abortion measures have failed.

Prostaglandin - induction of labor resulting in the expulsion of the fetus by administration of a substance with hormone-like action, either vaginal suppository or intra-amniotic injection.

Saline - induction of labor with eventual expulsion of the fetus by insertion of a hollow needle through the abdominal wall, withdrawal of a portion of the amniotic fluid from the uterine cavity, and subsequent replacement with a concentrated salt solution.

Sharp Curettage - dilatation of the cervical canal with scraping and removal of fetal and placental tissues by use of a curette (which resembles a small spoon). Also, surgical D&C or surgical curettage.

Suction Curettage - dilatation of the cervical canal by the successive insertion of instruments of increasing diameter called dilators until the opening is large enough to insert a flexible tube (cannula) into the uterine cavity and permit the suction removal of fetal and placental tissues by an electric vacuum pump. Also, vacuum aspiration, suction D&C, or early uterine evacuation.

Infant Death - Death of a child under one year of age.

Live Birth - The complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy, which, after such expulsion or extraction, breathes, or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached.

Live Birth Order - Total number of live births to a given mother, including current birth.

Maternal Death - Death attributed to complications of pregnancy, childbirth, or the puerperium; includes abortion related death.

Neonatal Death - Death of an infant within the first 27 days of life.

Nulliparous - Having never given birth to a liveborn infant.

Occurrence Data - Data allocated by place where event occurred, regardless of the person's place of residence.

Parity - Previous live births; does not include current birth.

Perinatal Death - Fetal deaths plus deaths to infants within the first six days of life.

Premature Birth - A live birth weighing 2,500 grams (5-1/2 pounds) or less. If birth weight is not stated, length of gestation (under 37 weeks) is used.

Residence Data - Data allocated by place of residence of the decedent (deaths), or by place of residence of the child's mother (births, fetal deaths) or patient (abortions).

Spontaneous Abortion - An unintended interruption of pregnancy the result of which is a fetal death of any gestational age. Also, miscarriage or miscarried pregnancy.

Trimester - The duration of human pregnancy, approximately 266 days, divided by 3, resulting in three equal time periods equaling 88.67 days, or 12.67 weeks, or approximately three months, each. As a useful rule-of-thumb, gestation weeks 1 through 12 are considered the first trimester of pregnancy; weeks 13 through 24, the second trimester; and over 24 weeks, the third trimester.

Rates And Ratios

Rates and ratios are calculated by dividing the event of concern by the population at risk or a related population and multiplying by a constant (i.e. 1,000, 10,000, or 100,000). See below.

Abortion Rate - Number of abortions per 1,000 female population aged 15 to 44.

Abortion Ratio - Number of abortions per 1,000 live births.

Age-specific Rate - Number in event of concern for a specific age group per some fixed constant of population in that age group. For instance, the age-specific death rate is the number of deaths in a specific age group per 100,000 population in that age group. See different rates, i.e. fertility, pregnancy, abortion, for most typically used fixed constant in each rate.

Cause-specific Death Rate - Number of deaths from a specific cause per 100,000 population.

Complication Rate - Number of complication cases per 1,000 procedures; one case may have more than one complication.

(crude) Birth Rate - Number of live births per 1,000 population.

(crude) Death Rate - Number of deaths per 1,000 population.

Fertility Rate - Number of live births per 1,000 women, 15-44 years of age.

Fetal Death Ratio - Number of fetal deaths per 1,000 live births.

Infant Death Rate - Number of infant deaths per 1,000 live births.

Maternal Death Rate - Number of maternal deaths per 10,000 live births.

Neonatal Death Rate - Number of neonatal deaths per 1,000 live births.

Perinatal Death Rate - Number of perinatal deaths per 1,000 live births plus fetal deaths.

Pregnancy Rate - Number of total pregnancies (live births, fetal deaths, and abortions) per 1,000 female population aged 15-44.

Appendix B

Technical Notes

Reliability of the Data

In analyzing any data, the possibility of errors in the data must not be overlooked. There are several types of possible errors, including underreporting or under-registration, errors made by the informant, and errors in compilation and processing. The most potentially dangerous error, however, is probably that of improper interpretation.

Statistics are neither more true nor false than the interpreta-tion given to them . It should be emphasized that most of the rates computed in this report are crude rates. For comparing geographic areas, crude rates are limited. They do not reflect differences in age, sex, race, and other population characteristics. In addition, it is important to recognize the possible distortion in these rates where the number of events or the population is small. Minor variations in the number of events may result in major changes in the rates. Special caution should also be exercised in analyzing trend data, because of changes throughout the years in medical diagnosis, coding definitions, and registration coverage.

Methods and Sources of data for 'Is Washington State Meeting 1990 Goals?'

Trends are determined by comparing 1989 to the previous five years, thus they represent recent trends only. Long-term trends in rates are shown on the accompanying graphs.

Projected 1990 Washington State rates are determined by assuming that current trends will continue to 1990. Because this is a rough approximation, projected data are given in whole numbers only, to reflect their uncertainty. Washington State data are based on 1989 Washington State resident events, except where two or three years are combined to provide more stability in rates. These cases are noted on the tables.

US figures are based on data reported in the National Center for Health Statistics (NCHS) *Monthly Vital Statistics Reports* (USDHHS, Public Health Service, Hyattsville, Maryland). Data are the most recent available; data years used are noted on the tables.

1990 goals are given in the NCHS publication *Health: United States, 1986.* (DHHS Publication No. PHS 87-1232. Public Health Service, Washington, US Government Printing Office, December, 1986).

Collection Year

Data for the *Annual Summary of Vital Statistics, Washington State 1989* report were compiled from items on birth, death, marriage, and divorce certificates, and abortion reports received before April 15, 1990. (See Appendix F for samples.)

Interstate Exchanges

Washington State is a member of the interstate exchange agreement and receives birth and death certificates of residents who have died in other states. Although, no formal agreement exists, some states have agreed to exchange abortion reports. Out-of-state marriage and divorce certificates are not exchanged.

Population

Population data in this report are an estimate of population provided by the Washington State Office of Financial Management, April 1, 1989.

Race

The race of women obtaining induced abortions, although collected, is not useful for analysis because of the large number of reported unknowns and blanks. In 1989, "unknown" was the second largest category, amounting to more than all other racial categories combined except white among reported abortions.

The determination of race on birth and death certificates follows decision rules established by the National Center for Health Statistics (NCHS).

If more than one race is listed and one is Hawaiian, Hawaiian is selected. In cases of other races, the first non-white race listed is selected.

To determine child'srace on birth certificates, each parent's race is first established according to the previous rules. Rules to determine race of the child, then, fall along a similar pattern:

- If either parent is Hawaiian, then the child's race is considered Hawaiian.
- In cases where one parent is white and the other non-white, the non-white race is selected as the race of the child.
- If both parents are non-white, the father's race is selected except where the mother's race is Hawaiian.

Hispanic origin was added as an ethnic category and collected as a separate item (in addition to race) for the 1988 annual summary. Prior to 1988, Hispanic data were provided by a racial entry of "Mexican/Chicano" or "Mexican American". Data based on Hispanic origin from those years are not comparable with 1988 or 1989 data and should not be used for trend analysis or year-to-year comparisons.

Adequacy of Care

Adequacy of care was determined from the Kessner Index (DM Kessner, J Singer, CE Kalk, and ER Schlesinger: *Infant Death, an Analysis by Maternal Risk and Health Care.* Washington DC, Institute of Medicine, National Academy of Sciences, 1973). The Kessner Index separates care into adequate, intermediate, and inadequate by using a combination of month prenatal care began, number of prenatal visits, and gestational age at delivery. Gestational age was calculated from the birth date and last normal menses date. In cases where the menses month and year were specified but the day was missing, a value of 15 was used for the menses day, in accordance with standard practice.

Low Birth Weight

Traditionally, low birth weight has been defined as 2,500 grams or less. However, the *International Classification of Diseases, Ninth Revision* (ICD-9) redefines low birth weight as less than 2,500 grams. Thus, 2,500 grams should now be included with the normal birth weight category. The impact of this change is minimal in the United States, where most weights are given in pounds and ounces. No weight of pounds and ounces converts exactly to 2,500 grams (5lb, 8oz is 2,495g and 5lb 9oz is 2,523g). It is, therefore, unlikely that many weights of 2,500 grams are recorded. In fact, none were found in a study of 1984 Washington State births. In the interests of consistency with past data, Washington State has chosen to continue including 2,500 grams with the low birth weight category.

Maternal Smoking

The birth certificate item concerning maternal smoking was changed with the 1989 certificate. In 1989, mothers were asked the number of cigarettes smoked in addition to answering the question: "Tobacco use during pregnancy?". Tables concerning maternal smoking in this summary continue to array maternal smoking as "Yes", "No", and "Unknown" irrespective of quantity.

Cause of Death Classification

The causes of death presented herein are classified in accordance with the *International Classification of Diseases, Ninth Revision* published by the World Health Organization. The State of Washington began using this revision January 1, 1979.

Ranking of Leading Causes of Death

In the interest of comparability, this summary uses, in general, the cause of death groups established by the National Center for Health Statistics (NCHS).

Life Expectancy

Life expectancy is based on 1989 crude mortality rates.

Occurrence Data on Death Certificates

The validity of occurrence death data has some limitations. As the death certificate does not specify inside or outside of corporate limits for place of death, rural deaths may be incorrectly assigned to cities because the location of death was in close proximity to a city. Informants, moreover, often are unaware of city boundaries.

Rounding

Rates are rounded to the nearest tenth. When the rate or percent is less than one-tenth, the entry is 0. Where whole numbers are used, a blank indicates none or zero.

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Appendix C

Conversion of Birth Weight in Grams to Pounds and Ounces

Gramweight	Pounds and Ounces
1,000 grams and under	2 lbs. 3 oz. and less
1,001 - 1,500	2 lbs. 4 oz. - 3 lbs. 4 oz.
1,501 - 2,000	3 lbs. 5 oz. - 4 lbs. 6 oz.
2,001 - 2,500	4 lbs. 7 oz. - 5 lbs. 8 oz.
2,501 - 3,000	5 lbs. 9 oz. - 6 lbs. 9 oz.
3,001 - 3,500	6 lbs. 10 oz. - 7 lbs. 11 oz.
3,501 - 4,000	7 lbs. 12 oz. - 8 lbs. 13 oz.
4,001 - 4,500	8 lbs. 14 oz. - 9 lbs. 14 oz.
4,501 grams and over	9 lbs. 15 oz. and over

One pound = 453.59 grams

Appendix D

502520-2

Population of the State of Washington by Age Group by Sex, April 1, 1989

Age Group	Total	Male	Female
Total	4,660,700	2,324,212	2,336,488
Under 1 Year	72,470	37,136	35,334
1 - 4	276,837	141,897	134,940
5 - 14	659,391	337,480	321,911
15 - 19	320,172	163,949	156,223
20 - 24	336,430	173,108	163,322
25 - 34	817,792	423,869	393,923
35 - 44	763,182	384,607	378,575
45 - 54	482,864	247,462	235,402
55 - 64	377,185	182,886	194,299
65 - 74	324,470	148,055	176,415
75 - 84	172,937	67,559	105,378
85 and Over	56,970	16,204	40,766

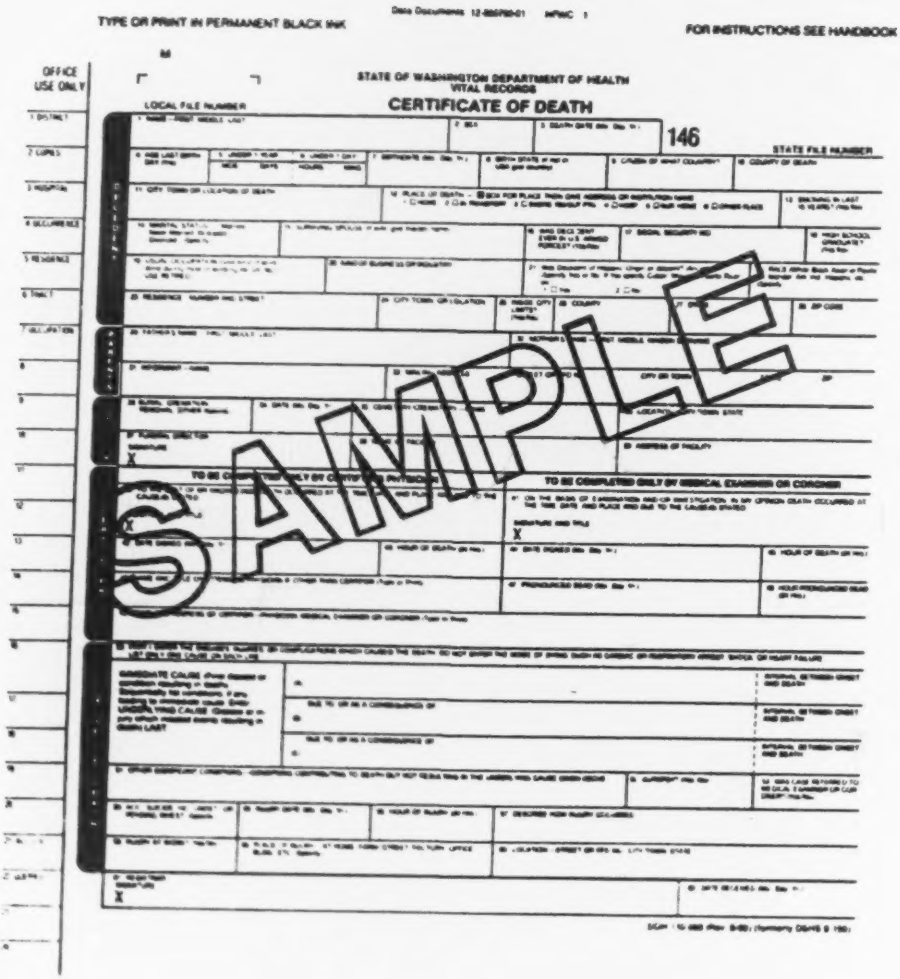
Appendix E

S02530A

Population, State of Washington, Counties, and Cities of 10,000 Population and Over, April 1, 1989

	City Total	County Total
Adams		13,400
Asotin		17,600
Benton		104,100
Kennewick	36,880	
Richland	29,970	
Chelan		48,600
Wenatchee	19,950	
Clallam		55,200
Port Angeles	17,490	
Clark		220,400
Vancouver	44,450	
Columbia		4,100
Cowlitz		82,100
Kelso	11,270	
Longview	30,320	
Douglas		25,400
Ferry		6,100
Franklin		34,200
Pasco	17,560	
Garfield		2,300
Grant		51,900
Moses Lake	10,810	
Grays Harbor		63,600
Aberdeen	17,140	
Island		55,300
Oak Harbor	14,790	
Jefferson		19,200
King		1,446,000
Auburn	32,460	
Bellevue	86,350	
Bothell (part)	10,430	
Des Moines	14,820	
Kent	34,860	
Kirkland	36,620	
Mercer Island	20,380	
Redmond	33,400	
Renton	38,480	
Seattle	497,200	
Kitsap		181,500
Bremerton	37,080	
Kittitas		25,400
Ellensburg	11,730	
Klickitat		16,700
Lewis		58,000
Centralia	11,840	
Lincoln		8,800
Mason		37,500
Okanogan		31,700
Pacific		17,700
Pend Oreille		8,900
Pierce		560,900
Puyallup	21,290	
Tacoma	162,100	
San Juan		9,700
Skagit		72,400
Anacortes	10,600	
Mount Vernon	14,790	
Skamania		8,100
Snohomish		430,400
Edmonds	29,720	
Everett	64,170	
Lynnwood	26,280	
Mountlake Terrace	17,590	
Spokane		358,000
Spokane (city)	170,700	
Stevens		30,500
Thurston		155,100
Lacey	16,940	
Olympia	31,070	
Wahkiakum		3,500
Walla Walla		48,800
Walla Walla (city)	25,690	
Whatcom		122,200
Bellingham	47,290	
Whitman		37,600
Pullman	22,270	
Yakima		187,800
Yakima (city)	50,610	
State Total		4,660,700

Appendix F



TYPE OR PRINT IN PERMANENT BLACK INK

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OFFICE USE ONLY

STATE OF WASHINGTON DEPARTMENT OF HEALTH
VITAL RECORDS

LOCAL FILE NUMBER

CERTIFICATE OF DEATH

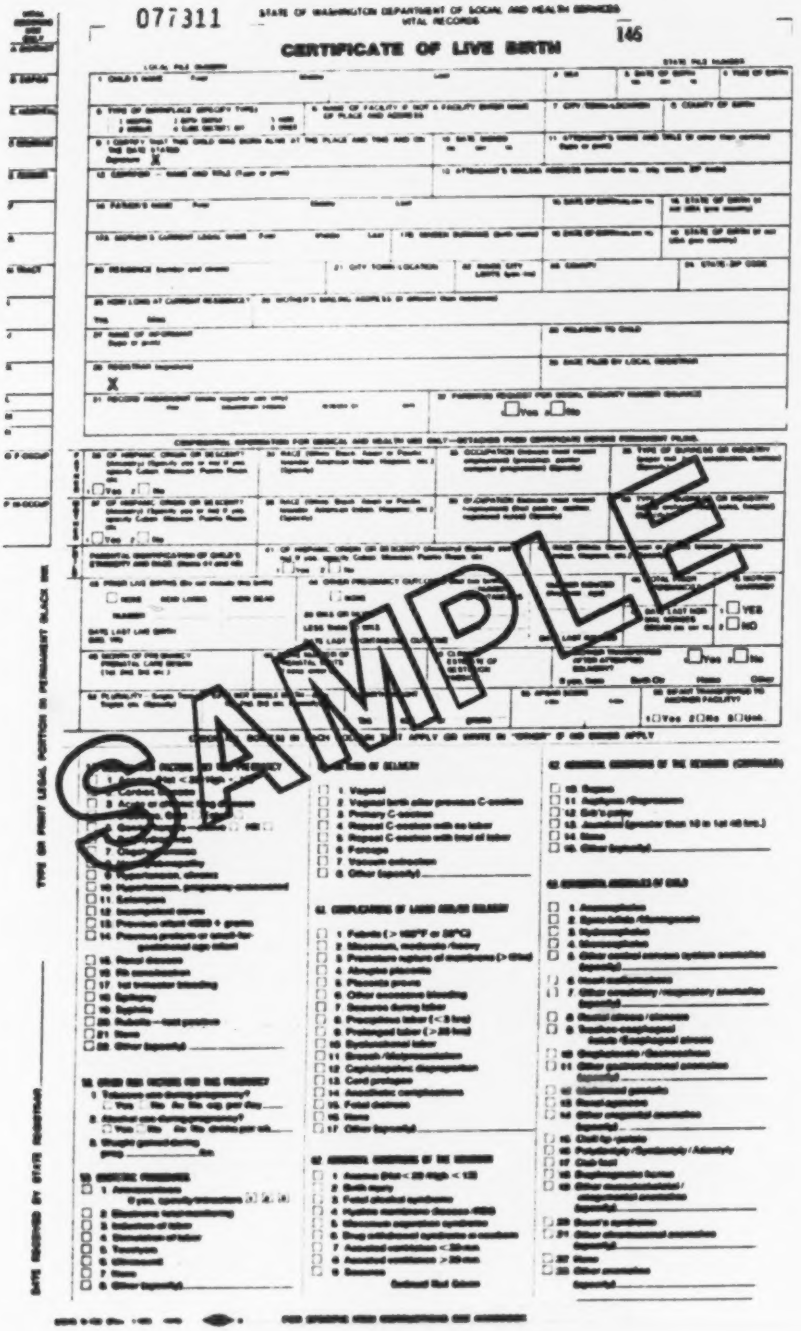
146

STATE FILE NUMBER

TO BE COMPLETED ONLY BY MEDICAL EXAMINER OR CORONER

IMMEDIATE CAUSE

SAMPLE

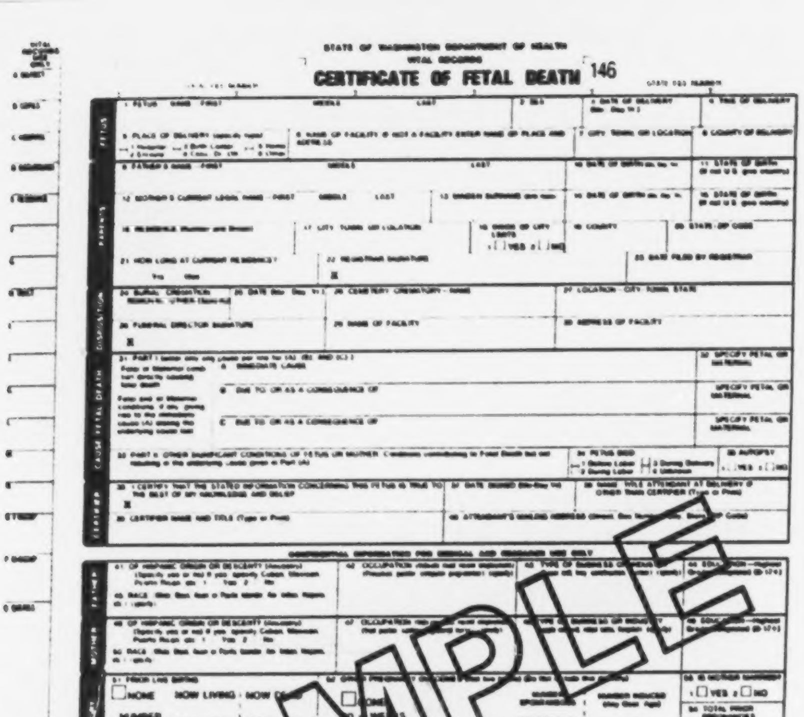


077311 STATE OF WASHINGTON DEPARTMENT OF SOCIAL AND HEALTH SERVICES
VITAL RECORDS

146

CERTIFICATE OF LIVE BIRTH

SAMPLE



STATE OF WASHINGTON DEPARTMENT OF HEALTH
VITAL RECORDS

CERTIFICATE OF FETAL DEATH 146

SAMPLE

☐ NONE NOW LIVING NOW DEAD

NUMBER

DATE LAST LIVE BIRTH

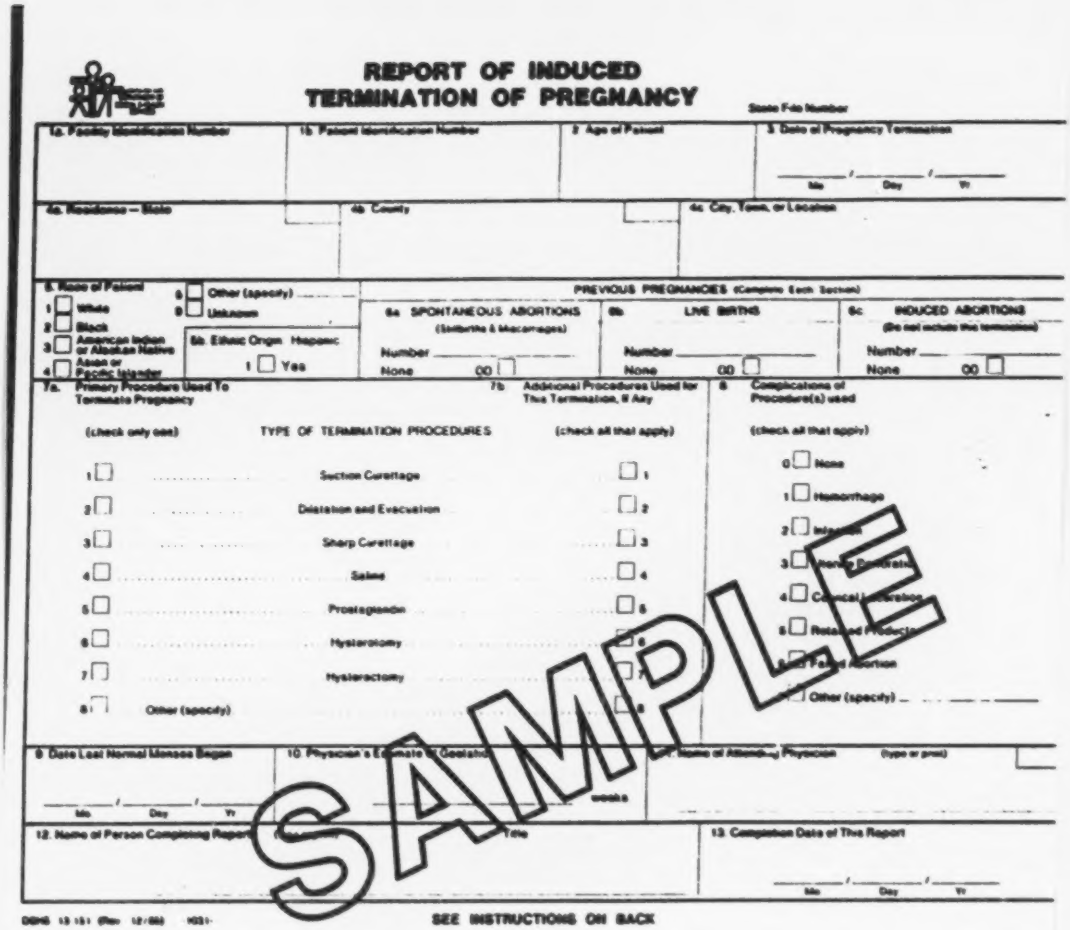
DATE LAST SPONTANEOUS OUTCOME

DATE LAST INDUCED

64 OBSTETRIC PROCEDURES (CONTINUED)
- ☐ 5 Tocolysis
- ☐ 6 Ultrasound
- ☐ 7 None
- ☐ 8 Other (specify)

65 METHOD OF DELIVERY
- ☐ 1 Vaginal
- ☐ 2 Vaginal birth after previous C-section
- ☐ 3 Primary C-section
- ☐ 4 Repeat C-section with no labor
- ☐ 5 Repeat C-section with trial of labor
- ☐ 6 Forceps
- ☐ 7 Vacuum extraction
- ☐ 8 Other (specify)

67 CONDITIONS OF FETUS
- ☐ 1 Fetal Hemorrhage
- ☐ 2 Placenta and cord conditions
- ☐ 3 Hemolytic Disease
- ☐ 4 Fetal Hydrops
- ☐ 5 Shoulder Dystocia
- ☐ 6 Other specify
- ☐ 7 None



REPORT OF INDUCED TERMINATION OF PREGNANCY

State File Number

1a. Facility Identification Number

1b. Patient Identification Number

2. Age of Patient

3. Date of Pregnancy Termination
_____ / _____ / _____
Mo Day Yr

4a. Residence — State

4b. County

4c. City, Town, or Location

5. Race of Patient
1 ☐ White
2 ☐ Black
3 ☐ American Indian or Alaskan Native
4 ☐ Asian or Pacific Islander
6 ☐ Other (specify) _____
9 ☐ Unknown

5b. Ethnic Origin Hispanic
1 ☐ Yes

PREVIOUS PREGNANCIES (Complete Each Section)

6a SPONTANEOUS ABORTIONS (Stillbirths & Miscarriages)	6b LIVE BIRTHS	6c INDUCED ABORTIONS (Do not include this termination)
Number _____	Number _____	Number _____
None 00 ☐	None 00 ☐	None 00 ☐

7a. Primary Procedure Used To Terminate Pregnancy

7b Additional Procedures Used for This Termination, If Any

(check only one)	TYPE OF TERMINATION PROCEDURES	(check all that apply)
1 ☐	Suction Curettage	☐ 1
2 ☐	Dilatation and Evacuation	☐ 2
3 ☐	Sharp Curettage	☐ 3
4 ☐	Saline	☐ 4
5 ☐	Prostaglandin	☐ 5
6 ☐	Hysterotomy	☐ 6
7 ☐	Hysterectomy	☐ 7
8 ☐	Other (specify)	☐ 8

8 Complications of Procedure(s) used

(check all that apply)

0 ☐ None
1 ☐ Hemorrhage
2 ☐ Infection
3 ☐ Uterine Perforation
4 ☐ Cervical Laceration
5 ☐ Retained Products
6 ☐ Failed Abortion
7 ☐ Other (specify) _____

9. Date Last Normal Menses Began
_____ / _____ / _____
Mo Day Yr

10. Physician's Estimate of Gestation
_____ weeks

11. Name of Attending Physician (type or print)

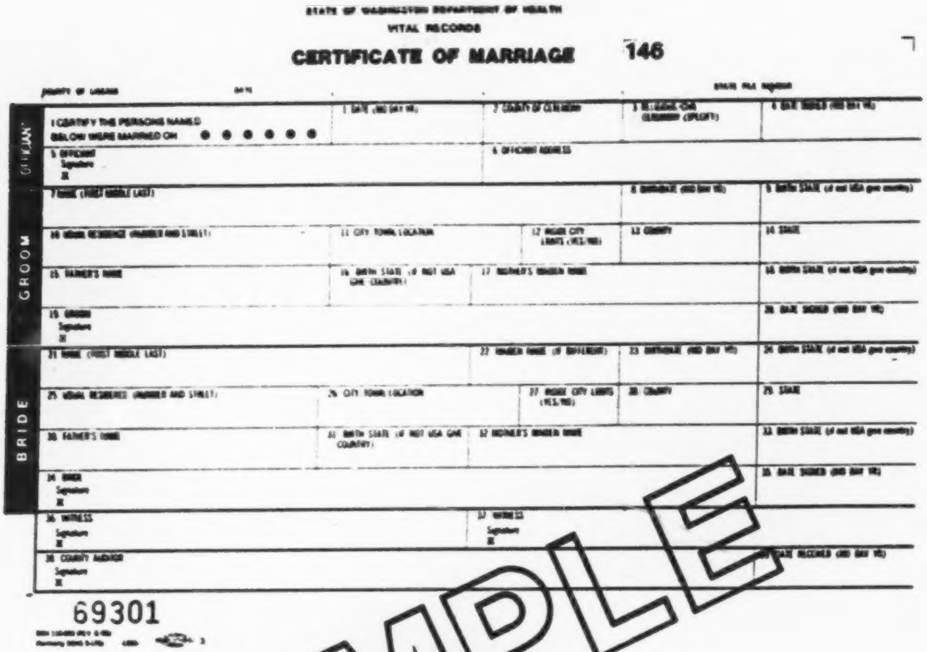
12. Name of Person Completing Report (type or print) Title

13. Completion Date of This Report
_____ / _____ / _____
Mo Day Yr

DOHS 13 151 (Rev 12/86) 1031-

SEE INSTRUCTIONS ON BACK

SAMPLE



STATE OF WASHINGTON DEPARTMENT OF HEALTH
VITAL RECORDS

CERTIFICATE OF MARRIAGE 146

OFFICIANT
I CERTIFY THE PERSONS NAMED BELOW WERE MARRIED ON ● ● ● ● ● ●
5 OFFICIANT Signature X
6 OFFICIANT ADDRESS

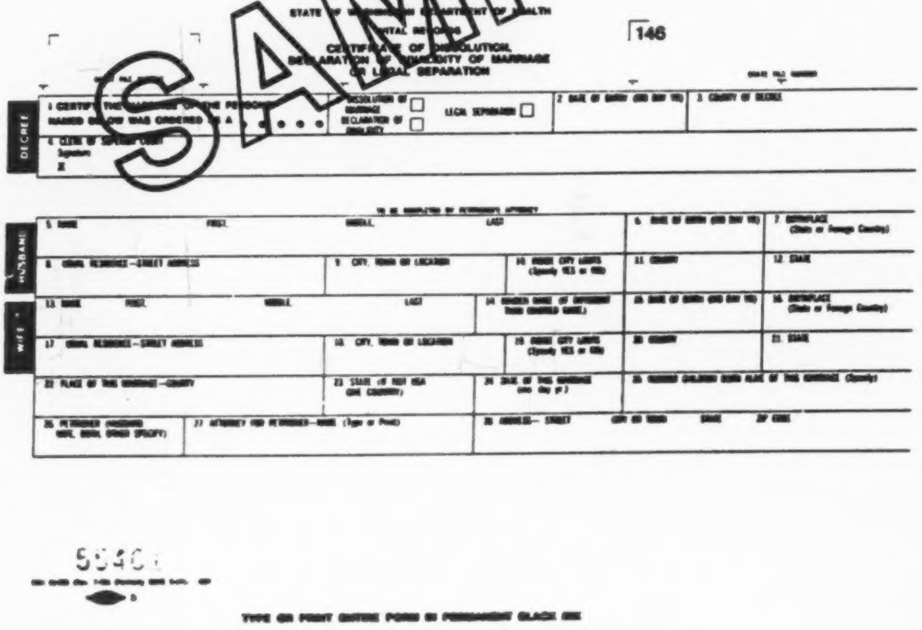
GROOM
7 NAME (FIRST MIDDLE LAST)
10 USUAL RESIDENCE (NUMBER AND STREET)
11 CITY TOWN LOCATION
15 FATHER'S NAME
17 MOTHER'S MAIDEN NAME
19 GROOM Signature X

BRIDE
21 NAME (FIRST MIDDLE LAST)
25 USUAL RESIDENCE (NUMBER AND STREET)
26 CITY TOWN LOCATION
30 FATHER'S NAME
32 MOTHER'S MAIDEN NAME
34 BRIDE Signature X

36 WITNESS Signature X
37 WITNESS Signature X
38 COUNTY AUDITOR Signature X

69301

SAMPLE



STATE OF WASHINGTON DEPARTMENT OF HEALTH
VITAL RECORDS

CERTIFICATE OF DISSOLUTION, DECLARATION OF INVALIDITY OF MARRIAGE OR LEGAL SEPARATION

146

DECREE
1 CERTIFY THE MARRIAGE OF THE PERSONS NAMED BELOW WAS ORDERED TO A ● ● ● ● ●
DISSOLUTION OF MARRIAGE ☐
DECLARATION OF INVALIDITY ☐
LEGAL SEPARATION ☐
4 CLERK OF SUPERIOR COURT Signature X

HUSBAND
5 NAME FIRST MIDDLE LAST
7 BIRTHPLACE (State or Foreign Country)
9 CITY, TOWN OR LOCATION

WIFE
13 NAME FIRST MIDDLE LAST
16 BIRTHPLACE (State or Foreign Country)
18 CITY, TOWN OR LOCATION

5940

TYPE OR PRINT ENTIRE FORM IN PERMANENT BLACK INK

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SRI B91 issue

ATTENTION

The attached pages have been prepared to correct errors in the **"1989 Washington State Annual Summary of Vital Statistics."** Please insert the corrected pages in your 1989 Summary.

Errata issued June 1990

Births in Washington State by Selected Topics, 1989

I. Occurrence, Method of Birth Delivery by Obstetric Procedure

Method of Delivery	Total	None	Amnio-Centesis	Electronic Fetal Monitoring	Induction of Labor	Stimulation of Labor	Tocolysis	Ultrasound	Other	Unknown
Total	74,030	9,088	3,306	44,974	8,247	8,701	1,501	33,817	1,795	9,453
Unknown	7,744	159	27	272	48	62	11	185	17	7,209
Vaginal Delivery	45,775	6,778	1,649	31,292	5,520	5,637	844	21,584	1,141	1,282
Vaginal Delivery after Prev. C-Section	1,870	193	100	1,371	255	292	53	1,069	42	62
Primary C-Section	8,312	562	701	5,857	1,428	1,559	311	5,015	362	423
Repeat C-Section without Trial Labor	3,937	602	469	1,722	25	21	96	2,484	71	246
Repeat C-Section with Trial Labor	1,097	91	87	750	144	127	22	662	30	55
Outlet Forceps	2,595	235	138	1,949	406	569	103	1,458	40	96
Vacuum Extraction	2,581	440	128	1,709	412	424	55	1,313	82	65
Other	119	28	7	52	9	10	6	47	10	15

J. Occurrence, Type of Place

	Number	Percent
Total	74,030	100.0%[1]
General Hospital	68,274	92.2
Federal Facility	3,946	5.3
Home	1,314	1.8
Birth Center	229	.3
Born on Arrival	79	.1
Other and Unknown	188	.3

---

[1] Detail may not add to 100% due to rounding.

Table 19

Live Births by Institutions by Place of Occurrence, Washington State 1989

County and City	Total	General Hospital	Birth Center	Federal Facility	Home	Born On Arrival	Other and Not Stated
State Total	74,030	68,274	229	3,946	1,314	79	188
Adams	296	293			3		
Asotin							
Benton	2,145	2,137			8		
Kennewick	891	889			2		
Richland	911	908			3		
Chelan	1,247	1,227			20		
Wenatchee	1,150	1,142			8		
Clallam	728	705			18	1	4
Port Angeles	632	622			9	1	
Clark	2,423	2,366			54	1	2
Vancouver	2,397	2,366			30	1	
Columbia	1				1		
Cowlitz	1,413	1,386			26	1	
Kelso	7				7		
Longview	1,401	1,386			14	1	
Douglas	11				10		1
Ferry	10	7			3		
Franklin	642	637			3		2
Pasco	638	637			1		
Garfield							
Grant	710	694			14	1	1
Moses Lake	588	583			5		
Grays Harbor	720	709			11		
Aberdeen	710	708			2		
Island	725	333		372	18	1	1
Oak Harbor	7	2			5		
Jefferson	153	140			13		
King	25,422	25,002	18		327	36	39
Auburn	822	806			15	1	
Bothell	9				9		
Bellevue	2,459	2,446			12	1	
Des Moines	3				3		
Kent	34				34		
Kirkland	2,092	2,048	1		13	1	29
Mercer Island	4	1			3		
Redmond	1,673	1,656			14	3	
Renton	2,926	2,906			16	4	
Seattle	13,991	13,773	17		166	25	10
Kitsap	2,645	1,916		682	43	3	1
Bremerton	1,932	1,916			13	3	
Kittitas	268	262			5		1
Ellensburg	266	262			4		
Klickitat	231	229			2		
Lewis	906	777			129		
Centralia	724	702			22		
Lincoln	12	11			1		
Mason	177	165			11		1
Okanogan	528	516			10	1	1
Pacific	38	30			8		
Pend Oreille	30	29			1		
Pierce	10,669	7,919	87	2,478	125	7	53
Puyallup	1,536	1,518			18		
Tacoma	6,556	6,401	87		61	7	
San Juan	9				7		2
Skagit	1,440	1,284	121		29	1	5
Anacortes	215	203			11		1
Mount Vernon	904	772	121		7	1	3
Skamania	3				3		
Snohomish	5,411	5,177			215	5	14
Edmonds	1,656	1,639			16		1
Everett	3,066	3,020			41	4	1
Lynnwood	15				15		
Mountlake Terrace	6				6		
Spokane	6,155	5,678		414	52	5	6
Spokane (city)	5,704	5,654			39	5	6
Stevens	328	314			13	1	
Thurston	2,112	1,987	3		67	4	51
Lacey	2				2		
Olympia	2,091	1,986	3		47	4	51
Wahkiakum							
Walla Walla	831	828			3		
Walla Walla (city)	831	828			3		
Whatcom	1,690	1,630			52	5	3
Bellingham	1,665	1,630			27	5	3
Whitman	343	341			2		
Pullman	306	304			2		
Yakima	3,558	3,545			7	6	
Yakima (city)	2,646	2,639			4	3	

Table 20 (continued)
Deaths in Washington State by Selected Topics, 1989

E. Residents, Leading Causes of Death

Rank	Causes of Death with International List Numbers		Number	Percent[1]
	All Causes		36,049	100.0%
1	Diseases of the Heart	391-392.0,393-398,402,404,410-417,420-429	11,162	31.0
2	Malignant Neoplasms	140-208,230-234	8,704	24.1
3	Cerebrovascular Disease	430-438	2,678	7.4
4	Chronic Obstructive Pulmonary Diseases	490-496	1,882	5.2
5	All Accidents	E800-949	1,671	4.6
6	Influenza and Pneumonia	480-487	1,325	3.7
7	Diabetes Mellitus	250	699	1.9
8	Suicide	E950-959	644	1.8
9	Arteriosclerosis	440	467	1.3
10	Diseases of the Arteries Except Arteriosclerotic	441-444, 446-448	467	1.3
	All Other Causes		6,350	17.7

F. Residence and Occurrence, Month of Death

Month	Residence	Occurrence
Total	36,049	36,205
January	3,214	3,218
February	3,093	3,081
March	3,335	3,321
April	2,917	2,919
May	3,055	3,048
June	2,838	2,872
July	2,915	2,930
August	2,752	2,789
September	2,878	2,910
October	2,981	2,991
November	2,900	2,925
December	3,171	3,201

G. Residents, Marital Status by Sex

	Total	Male	Female	Unk
Total	36,049	18,598	17,448	3
Single	3,803	2,535	1,266	2
Married	15,569	10,719	4,850	
Divorced	3,731	2,120	1,611	
Widowed	12,835	3,130	9,704	1
Unknown	111	94	17	

H. Occurrence, Type of Place

Total	36,205
General Hospitals	15,623
Nursing Home	9,764
Home	8,218
Federal Facility	888
Psychiatric Hospital	38
Dead On Arrival	37
Other and Unknown	1,637

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[1] Detail may not add to 100% due to rounding.

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Table 23

Deaths Due to Malignant Neoplasm by Primary Site with Rates[1] by Sex, Washington State Residents 1989

Cause with International List Number	Total[2]		Male		Female	
	Number	Rate	Number	Rate	Number	Rate
Total All Causes	[8,704][3]	[186.8]	[4,592]	[197.6]	[4,111]	[175.9]
Lip, Oral Cavity, and Pharynx (140-149)	[162]	[3.5]	[97]	[4.2]	[65]	[2.8]
Digestive Organs and Peritoneum (150-159)	[2,001]	[42.9]	[1,085]	[46.7]	[916]	[39.2]
Esophagus (150)	166	3.6	121	5.2	45	1.9
Stomach (151)	227	4.9	139	6.0	88	3.8
Small Intestine, including Duodenum (152)	16	0.3	8	0.3	8	0.3
Colon (153)	780	16.7	403	17.3	377	16.1
Rectum (154)	129	2.8	69	3.0	60	2.6
Liver and Intrahepatic Ducts (155)	144	3.1	89	3.8	55	2.4
Gallbladder and Extrahepatic Bile Ducts (156)	58	1.2	19	0.8	39	1.7
Pancreas (157)	429	9.2	212	9.1	217	9.3
Retroperitoneum and Peritoneum (158)	7	0.2	3	0.1	4	0.2
Other and Ill-defined Sites (159)	45	1.0	22	0.9	23	1.0
Respiratory and Intrathoracic Organs (160-165)	[2,600][3]	[55.8]	[1,621]	[69.7]	[978]	[41.9]
Lung (162)	2,512[3]	53.9	1,545	66.5	966	41.3
Other and Ill-defined Sites (160-161,163-165)	88	1.9	76	3.3	12	0.5
Bone, Connective Tissue, Skin and Breast (170-175)	[986]	[21.2]	[133]	[5.7]	[853]	[36.5]
Bone and Articular Cartilage (170)	26	0.6	16	0.7	10	0.4
Connective Tissue and Other Soft Tissue (171)	63	1.4	36	1.5	27	1.2
Skin (172-173)	120	2.6	76	3.3	44	1.9
Breast (174-175)	777	16.7	5	0.2	772	33.0
Genital Organs (179-187)	[1,031]	[22.1]	[578]	[24.9]	[453]	[19.4]
Urinary Organs (188-189)	[390]	[8.4]	[243]	[10.5]	[147]	[6.3]
Brain (191)	[234]	[5.0]	[133]	[5.7]	[101]	[4.3]
Lymphatic and Hematopoietic Tissue (200-208)	[865]	[18.6]	[478]	[20.6]	[387]	[16.6]
Lymphosarcoma (200)	180	3.9	94	4.0	86	3.7
Hodgkins Disease (201)	23	0.5	16	0.7	7	0.3
Multiple Myeloma and Immunoproliferative Tissue (203)	180	3.9	90	3.9	90	3.9
Lymphoid Leukemia (204)	92	2.0	58	2.5	34	1.5
Myeloid Leukemia (205)	187	4.0	105	4.5	82	3.5
Monocytic Leukemia (206)	4	0.1	1		3	0.1
Other and Unspecified Leukemia (207-208)	41	0.9	22	0.9	19	0.8

[1] Rates per 100,000 estimated population.
[2] Group totals are shown in brackets.
[3] These totals contain 1 case of unknown sex.

Table 41

Infant Mortality by Leading Causes by Place of Residence, Washington State 1989

County and City	Total All Causes	Birth Injuries	Other Causes Of Mortality In Early Infancy	Congenital Malformations	Influenza and Pneumonia	All Accidents	Sudden Infant Death	All Other Causes
State Total	686	69	180	148	4	19	196	70
Adams	3		1				1	1
Asotin	5						5	
Benton	23	5	9	4			2	3
Kennewick	13	2	4	3			1	3
Richland	5	1	4					
Chelan	10		3	2			3	2
Wenatchee	4		1	1			1	1
Clallam	3	1		1			1	
Port Angeles	1						1	
Clark	30	2	9	6			8	5
Vancouver	8		4	1			2	1
Columbia								
Cowlitz	6		2	2			2	
Kelso								
Longview	5		1	2			2	
Douglas	4		1	2			1	
Ferry								
Franklin	6			1		2	3	
Pasco	5					2	3	
Garfield								
Grant	7		1	3			3	
Moses Lake	4		1	1			2	
Grays Harbor	9	1	3				4	1
Aberdeen	5	1	1				3	
Island	6	1	1	2		1	1	
Oak Harbor	1						1	
Jefferson	4		1	1			2	
King	180	19	53	35	2	3	50	18
Auburn	8	2	3	2		1		
Bellevue	14		5	4			1	4
Bothell (part)								
Des Moines	2		2					
Kent	4	1		1			2	
Kirkland	5			2			3	
Mercer Island								
Redmond	2						2	
Renton	4			1			2	1
Seattle	66	5	21	12		2	21	5
Kitsap	25	1	7	8		2	3	4
Bremerton	11		3	5		1	1	1
Kittitas	5		2	2			1	
Ellensburg	2			2				
Klickitat	4	2		1			1	
Lewis	14	2	2	3		1	6	
Lincoln								
Mason	5		1				4	
Okanogan	6	2	1	1			2	
Pacific	3	1		1			1	
Pend Oreille	1						1	
Pierce	108	10	28	28	1	6	21	14
Puyallup								
Tacoma	40	5	7	10		3	8	7
San Juan	2		1	1				
Skagit	13	1	5	1			6	
Mount Vernon	2		2					
Skamania								
Snohomish	68	5	13	17		2	23	8
Edmonds	8	1	1	2			4	
Everett	15		3	4			4	4
Lynnwood	9		5	1			2	1
Mountlake Terrace	2			1			1	
Spokane	51	5	14	9		1	17	5
Spokane (city)	33	2	7	6			14	4
Stevens	5		1	4				
Thurston	16	3	5				7	1
Lacey	1		1					
Olympia	5	1	2				2	
Wahkiakum	1		1					
Walla Walla	5		1	1		1	1	1
Walla Walla (city)	2		1			1		
Whatcom	11	1	4	3			3	
Bellingham	3		1				2	
Whitman	6	1	1	3			1	
Pullman	3		1	2				
Yakima	41	6	9	6	1		12	7
Yakima (city)	9	1	2	2			2	2